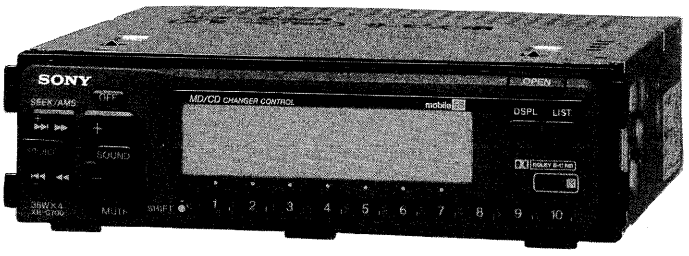
XR-C700

SERVICE MANUAL

US Model
Canadian Model
E Model



Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-52B-135

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US, Canadian model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
13 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1 % total harmonic distortion.

Other specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.08 % (WRMS)
Frequency response	30 – 20,000 Hz
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, IV	67 dB	73 dB	61 dB
TYPE I	64 dB	70 dB	58 dB

Tuner section

FM

Tuning range	US, Canadian model : 87.5—107.9MHz E model : 87.5—108.0MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 68 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	US, Canadian model : 530—1,710kHz E model : 530—1,602kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	30 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	35 W × 4 (at 4 ohms)

—continued on next page—

使用時は添付資料も参照のこと
Refer to the accompanying documents.

FM/AM CASSETTE CAR STEREO

SONY®

General

Outputs	Line outputs (2) Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 177 mm (7 1/2 × 2 3/8 × 7 in.) (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (7 1/4 × 2 1/8 × 6 1/2 in.) (w/h/d)
Mass	Approx. 1.3 kg (2 lb. 14 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S Wireless remote RM-X42 (E model)

Design and specifications are subject to change without notice.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

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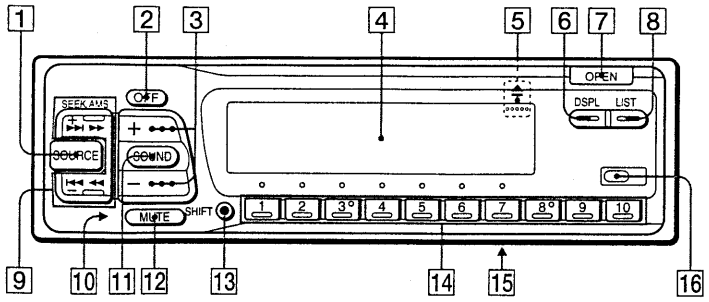
Location of controls



Refer to the pages for details.

1 SOURCE (source select) button 6, 7, 8, 11, 13, 15

2 OFF button 4, 6

3 ⊕ ⊖ (volume/bass/treble/balance/fader control) button 8, 10, 15

4 Display window

5 ⏏ (eject) button (located on the front side of the unit hidden by the front panel) 6

6 DSPL button (display mode change) 6, 8, 9, 11, 12, 15

7 OPEN button 4, 6, 17

8 LIST button
Disc Memo 15
List-up 9, 15
Station Memo 8, 9

9 SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 12, 13, 14, 16

10 Reset button (located on the front side of the unit hidden by the front panel) 4

11 SOUND button 10

12 MUTE button 10

13 SHIFT button
BTM 7
SET UP 5, 11
PLAY MODE 7, 8, 12, 13, 14, 16

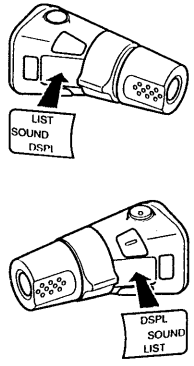
14 During radio reception:
Preset number buttons 7, 8
During CD/MD reception:
Direct disc selection button 12

15 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT switch" in the Installation/Connections manual.

16 Receptor for remote commander

Preparing the rotary remote

When you mount the rotary remote, attach the label in the illustration below.

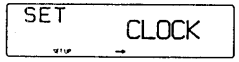


Setting the clock

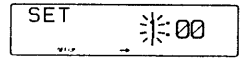
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press (2) (SET UP).



❶ Press (4) (→).

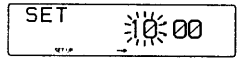


The hour digit flashes.

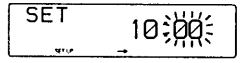
❷ Set the hour.

to go forward

to go back



❸ Press (4) (→).

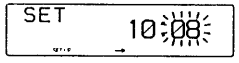


The minute digits flash.

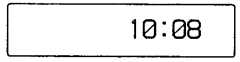
❹ Set the minute.

to go forward

to go back



2 Press (SHIFT).



The clock starts.

Note

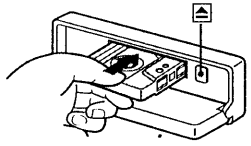
If the POWER SELECT switch on the bottom of the unit is set to the ❸ position, turn the power on first, then set the clock.

This section is extracted from instruction manual.

Cassette Player

Listening to the tape

1 Press (OPEN) and insert the cassette.

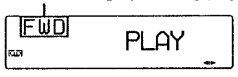


Playback starts automatically.

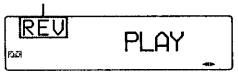
2 Close the front panel.

If the cassette is already inserted, press (SOURCE) until "FWD" or "REV" appears to start playback.

The side facing up is being played.



The side facing down is being played.



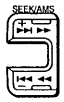
Tips

- *To change the tape transport direction, press (7) (◀I▶).*
- *"METAL" appears in the display when you insert the metal or CrO_2 tape (Auto Metal function).*

To	Press
Stop playback	(OFF)
Eject the cassette	(OPEN) then ⏏

Fast-winding the tape

During playback, press either side of (SEEK/AMS) for one second.



Fast-forward

Rewind

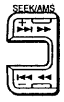
To start playback during fast-forwarding or rewinding, press (7) (◀I▶).

Locating the beginning of the tracks

— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of (SEEK/AMS) momentarily.



To locate the succeeding tracks

To locate the previous tracks

Note

The AMS function may not work when :

- *the blanks between tracks are shorter than four seconds.*
- *there are noises.*
- *there are long sections of low volume or quiet sections.*

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

→ Tape playback → Clock → Frequency* →

** While the ATA function is activated.*

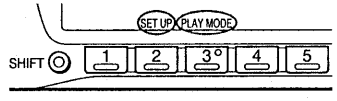
Playing the tape in various modes

You can play the tape in various modes:

- INTRO (Intro Scan) lets you play the first 10 seconds of all the tracks.
- REPEAT (Repeat Play) repeats the current track.
- NR(Dolby NR) lets you select the Dolby NR B or C system.
- ATA (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- BL.SKP (Blank Skip) skips blanks longer than eight seconds.

1 Press (SHIFT).

Every time you press (SHIFT), only the items you can select light up.



2 Press (3) (PLAY MODE), repeatedly until the desired play mode appears.

Each time you press (3), the item changes as follows:

INTRO → REPEAT → NR → ATA → BL. SKP

3 Press (4) (→) to select "ON."

Playback starts.

To go back to the normal playback mode, select "OFF" in step 3 above.

Radio

Memorizing stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorizes them in the order of their frequencies. You can store up to 10 stations on each band (FM 1, FM 2 and AM).

Caution

When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly to select the desired band (FM 1, FM 2 or AM).

2 Press (SHIFT), then press (6) (BTM).

The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

Notes

- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.*
- *When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorizing only the desired stations

You can store up to 10 stations on each band (20 for FM 1 and FM 2, 10 for AM) in the order of your choice.

1 Press (SOURCE) repeatedly to select the desired band.

2 Press either side of (SEEK/AMS) to tune in the station that you want to store on the number button.

3 Keep the desired number button ((1) to (10)) pressed for two seconds until you hear a beep tone.

The number button indication appears in the display.

Note

If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorized stations

1 Press (SOURCE) repeatedly to select the desired band.

2 Press the number button ((1) to (10)) momentarily, where the desired station is stored.

If you cannot tune in a preset station

Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note
If the automatic tuning stops too frequently, press (SHIFT), then press (3) (PLAY MODE) repeatedly until "LOCAL" (local seek mode) is displayed. Then press (4) (→) to select "ON."
Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press and hold either side of (SEEK/AMS) for two second, until the desired frequency appears (manual tuning).

If FM stereo reception is poor
— Monaural Mode

1 Press (SHIFT), then press (3) (PLAY MODE) repeatedly until "MONO" appears.

2 Press (4) (→) repeatedly until "MONO ON" appears.
The sound improves, but becomes monaural ("STEREO" disappears).

To go back to the normal mode, select "MONO OFF" in step 2 above.

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Frequency ⟷ Clock

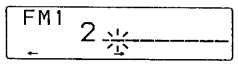
Storing the station names
—Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

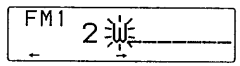
Storing the station names

1 Tune in a station whose name you want to store.

2 Press (LIST) for two seconds.

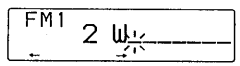


3 Enter the characters.
❶ Press (+) to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you press (−), the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

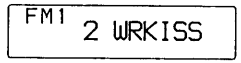
❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to the normal radio reception, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL) during radio reception.



Each time you press (DSPL), the item changes as follows:

→ Station name* → Frequency → Clock

** If the station name is not stored, "NO Name" appears in the display for one second.*

Erasing the station name

1 Tune in any station and press (LIST) for two seconds.

2 Press (DSPL) for two seconds.

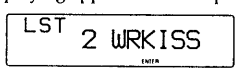
3 Press (+) or (−) to select the name that you want to erase.

4 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 Press (LIST) for two seconds.
The unit returns to the normal radio reception mode.

Locating a station by name — List-up

1 Press (LIST) momentarily.
The name assigned to the station currently playing appears in the display.



2 Press (LIST) repeatedly until you find the desired station.

3 Press (5) (ENTER) to tune in the desired station.

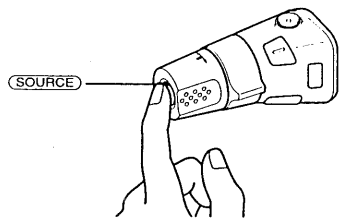
Note
Once the station name or frequency has been displayed for five seconds, the display goes back to its normal mode.
To turn off the display, press (DSPL).

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the optional CD or MD changer with the rotary remote.

By pressing the button (the SOURCE button)

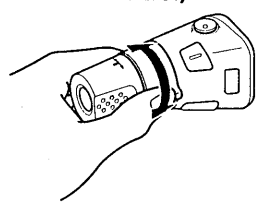


Each time you press (SOURCE), the source changes as follows:

FM1 → FM2 → AM → CD1 → CD2 → MD1 → MD2

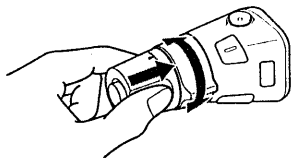
Tip
When the POWER SELECT switch is set to position ❸, you can turn on this unit by pressing (SOURCE) on the rotary remote.

By rotating the control (the SEEK/AMS control)



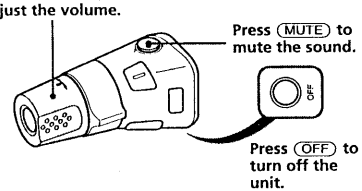
Rotate the control momentarily and release it to:
- Locate a specific track on a tape or a disc. Rotate and hold the control to locate the specific point in a track, then release it to start playback.
- Tune in the stations automatically. Rotate and hold the control to tune in the specific station.

By rotating the control while pushing (the PRESET/DISC control)



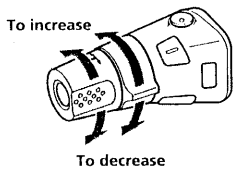
Rotate the control while pushing it to:
- Receive the stations memorized on the preset buttons.
- Change the disc.

Other operations

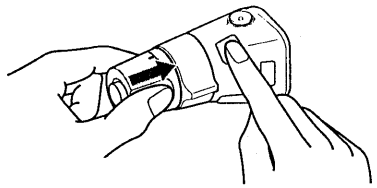

Rotate the VOL control to adjust the volume.
Press (MUTE) to mute the sound.
Press (OFF) to turn off the unit.
Press (DSPL) to change the displayed items.
Press (SOUND) to adjust the volume and sound menu.
Press (LIST) to display memorized names.

Changing the operative direction

The operative direction of controls is factory preset as in the illustration below.



If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



Press (DSPL) two seconds while pushing the VOL control.

Tip
You can control the operative direction of controls with the unit.

Adjusting the sound characteristics

You can adjust the bass, treble, balance and fader.
Each source can store the bass and treble level respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by pressing + or −.
Adjust within three seconds after selecting. (After three seconds, the buttons work as volume control buttons.)

Muting the sound

Press (MUTE).
"MUTE ON" flashes.

To restore the previous volume level, press (MUTE) again.

Tip
The unit decreases the volume automatically when a telephone call comes in (Telephone-mute function).

Changing the sound and display settings

You can set:
- AMBER/GREEN to change the illumination color to amber or green.
- BEEP to turn on or off the beeps.
- DIMMER (dimmer) to change the brightness of the display.
- D. INFO (dual information) to display the clock and the play mode at the same time (ON) or to display the information alternately (OFF).
- LOUD (Loudness) to enjoy bass and treble even at low volume. Bass and treble will be reinforced.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "NORM" to use the rotary remote as the factory preset position.
  — Select "REV" when you mount the rotary remote on the right of the steering column.

1 Press (SHIFT), then press (2) (SET UP).

2 Press (2) (SET UP) repeatedly until the desired setting mode appears.

Each time you press (2) (SET UP), the item changes as follows:
CLOCK → AMBER/GREEN → BEEP → DIMMER → D. INFO → LOUD → RM

3 Press (4) (→) to select the desired setting (for example: ON or OFF).

4 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

With Optional Equipment

CD/MD Changer

You can control up to 10 CD changers and MD changers with this unit.

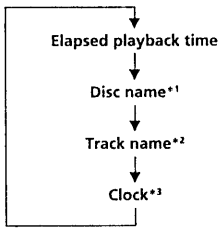
Playing a CD or MD

Press (SOURCE) until the desired changer appears.
CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed items

Each time you press (DSPL) during CD/MD playback, the item changes as follows:



*1 *If you have not labeled the CD, "NO Name" appears in the display. If there is no prerecorded name for an MD, "NO D. Name" appears in the display.*
*2 *If the track name is not prerecorded, "NO T. Name" appears in the display.*
*3 *If the dual information is on, clock does not appear in the display.*

Tip
If the name of the MD is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).

Automatically scrolling a disc name — Auto Scroll

The Auto Scroll function automatically scrolls the disc or track name of the MD when you press (DSPL) and the name length exceeds 8 characters.

1 Press (SHIFT), then press (2) (SET UP) repeatedly until "A. SCRL." appears.

2 Press (4) (→) to select "A. SCRL ON."

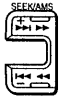
To cancel Auto Scroll, select "A. SCRL OFF" in step 2 above.

Displaying the recording date of the currently selected MD

Press (DSPL) for two seconds during MD playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track
— Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) once for each track you want to skip.

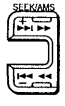


To locate succeeding tracks

To locate previous tracks

Locating a specific point in a track
— Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.



To search forward

To search backward

Locating a disc by disc number
— Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the currently selected changer begins playback.

Scanning the tracks
— Intro Scan

You can play the first 10 seconds of all the tracks on the currently selected disc.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "INTRO" appears.

2 Press ④ (→) repeatedly until "INTRO ON."
Intro Scan starts.

To go back to the normal playback mode, select "INTRO OFF" in step 2 above.

Playing tracks repeatedly
— Repeat Play

You can select:
- REP 1 to repeat a track.
- REP 2 to repeat a disc.
- REP 3 to repeat all the discs in the current changer.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "REP" appears.

2 Press ④ (→) repeatedly until the desired setting appears.

→ REP 1 → REP 2 → REP 3 → REP OFF

Repeat play starts.

To go back to the normal playback mode, select "REP OFF" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
- SHUF 1 to play the tracks on the current disc in a random order.
- SHUF 2 to play the tracks in the current changer in a random order.
- SHUF 3 to play all the tracks in a random order.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "SHUF" appears.

2 Press ④ (→) repeatedly until the desired setting appears.

→ SHUF 1 → SHUF 2 → SHUF 3 → SHUF OFF

Shuffle play starts.

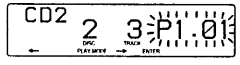
To go back to the normal playback mode, select "SHUF OFF" in step 2 above.

Creating a program
— CD Program Memory (CD changer with program memory function)

You can play the tracks in the order you want by making your own program. You can make two programs: Program 1 and Program 2. You can select up to 12 tracks in each program. You can store the programs in memory.

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.

Program edit mode



"P1" shows Program 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

2 Select the track you want.

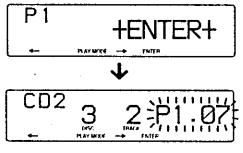
❶ Press (SOURCE) repeatedly to select the changer.

❷ Press (SHIFT), then press the number button to select the disc.

❸ Press (SHIFT).

❹ Press either side of (SEEK/AMS) to select the track.

3 Press ⑤ (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press ③ (PLAY MODE) for two seconds.

Notes
- *When a CD changer without program memory function is connected, "NO PGM" appears in the display and you cannot program tracks.*
- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem Full*" appears in the display when you try to enter more than 12 tracks into a program at one time.*

Playing the stored program

Changing the disc order in the changer will not affect program memory play.

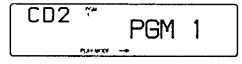
You can select:
- PGM 1 to play Program 1.
- PGM 2 to play Program 2.
- PGM 1+2 to play Programs 1 and 2.

1 Press (SHIFT).

2 Press ③ (PLAY MODE) repeatedly until "PGM" appears.

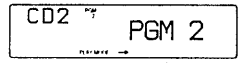
3 Press ④ (→) repeatedly until the desired program appears.

Program 1 Playback



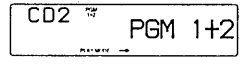
↓

Program 2 Playback



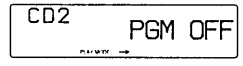
↓

Programs 1 and 2 Playback



↓

Normal Playback



Program play starts.

To go back to the normal playback mode, select "PGM OFF" in step 3 above.

Notes
- *If you press the number button during program memory play, program memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the program.*
- *If a track stored into the program memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains not a single track stored into the program memory, or when the program information has not been loaded yet, "Not Ready" appears.*

EN

EN

CD/MD Changer

Erasing the entire program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.

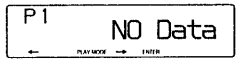
"P1" shows Program 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

2 Press ① (←) repeatedly until "DEL" appears.

To erase Program 2, press ④ (→) repeatedly until "PGM 2" appears.

3 Press ⑤ (ENTER) for two seconds.

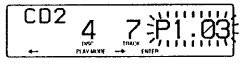


The entire program is erased.

4 When you finish erasing programs, press ③ (PLAY MODE) for two seconds.

Adding tracks to the program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.



If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

2 Press ① (←) or ④ (→) to select the track slot number where you want to insert a track.

Track slot number

3 Press either side of (SEEK/AMS) to select the track you want to insert.

4 Press ⑤ (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note
*Once all 12 slots have been filled, "*Mem Full*" appears in the display, and you cannot insert tracks.*

5 When you finish inserting tracks, press ③ (PLAY MODE) for two seconds.

Erasing the tracks in the program

1 Press (SHIFT), then press ③ (PLAY MODE) for two seconds.

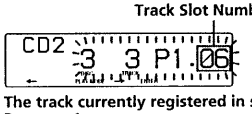
"P1" shows Program 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press ③ (PLAY MODE) to display "P1" above.

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

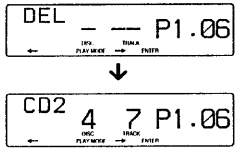
2 Press ① (←) or ④ (→) to select the track you want to erase.

Track Slot Number



The track currently registered in slot 6 of Program 1.

3 Press ⑤ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.



4 To continue erasing tracks, repeat steps 2 and 3.

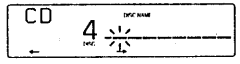
5 When you finish erasing tracks, press ③ (PLAY MODE) for two seconds.

Labeling a CD

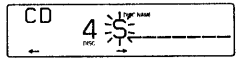
— Disc Memo
(CD changer with custom file function)

You can label each disc with a personalized name. You can enter up to eight characters for a disc. If you label a CD, you can locate a disc by name and select the specific tracks for playback (page 16).

1 Play the CD and press (LIST) for two seconds.

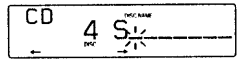


2 Enter the characters.
❶ Press ⊕ to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you press ⊖, the characters appear in the reverse order.
If you want to put a blank space between characters, select "_" (under-bar).

❷ Press ④ (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press ① (←), the flashing cursor moves to the left.

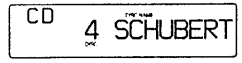
❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to the normal CD playback mode, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the disc memo

Press (DSPL) during CD playback.



Each time you press (DSPL) during CD playback, the item changes as follows:

Elapsed playback time → Disc name → Clock → Elapsed playback time

Erasing the disc memo

1 Press (SOURCE) to select the CD changer.

2 Press (LIST) for two seconds.

3 Press (DSPL) for two seconds.

4 Press ⊕ or ⊖ to select the name that you want to erase.

5 Press ⑤ (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

6 Press (LIST) for two seconds.
The unit returns to the normal CD playback mode.

Locating a disc by name

— List-up (CD changer with custom file function or MD changer)

You can use this function for the discs that have been assigned a custom name. For more information on disc names, refer to "labeling a CD."

1 Press (LIST) momentarily.
The name assigned to the disc currently playing appears in the display.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press ⑤ (ENTER) to play back the disc.

continue to next page →

Notes

- *Once a disc name has been displayed for five seconds, the display goes back to its normal playback mode. To turn off the display, press (DSPL).*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information is appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).*

Selecting the specific tracks for playback

— Bank

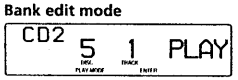
(CD changer with custom file function)

EN

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

1 Start playing the disc and press (SHIFT). Then press ③ (PLAY MODE) for two seconds.

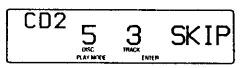
Bank edit mode



Note

If you have not labeled the disc, the bank edit mode does not appear and the program edit mode appears. To go back to the normal playback mode, press (SHIFT).

2 Press either side of (SEEK/AMS) to select the track number you want to skip and press ⑤ (ENTER).



The indication changes from "PLAY" to "SKIP." If you want to return to "PLAY," press ⑤ (ENTER) again.

3 Repeat step 2 to set the "PLAY" or "SKIP" mode on all the tracks.

4 Press ③ (PLAY MODE) for two seconds.

Notes

- *You can set the "PLAY" and "SKIP" mode on up to 24 tracks.*
- *You cannot set the "SKIP" mode on all the tracks.*

Playing the specific tracks only

You can select:

- BANK ON to play the tracks with the "PLAY" setting.
- BANK INV (inverse) to play the tracks with the "SKIP" setting.

1 During playback, press (SHIFT), then press ③ (PLAY MODE) repeatedly until "BANK" appears.

2 Press ④ (→) repeatedly until the desired setting appears.

→ BANK ON → BANK INV → BANK OFF

Playback starts from the track following the current one.

To go back to the normal playing mode, select "BANK OFF" in step 2 above.

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **yellow** and **red** power input leads only after all other leads have been connected.
- Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.
- **Run all ground wires to a common ground point.**

If your car has no accessory position on the ignition key switch
— POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if your car has no accessory position on the ignition key switch.** To avoid this battery wear, **set the POWER SELECT switch located on the bottom of the unit to the ⓑ position, then press the reset button.** The illumination is reset to stay off while the unit is not being played.

Note

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the ⓑ position.

Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc.

Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur tension continue de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher les fils d'entrée d'alimentation **jaune** et **rouge** seulement après avoir terminé tous les autres branchements.
- Veiller à ne pas raccorder le fil rouge d'entrée d'alimentation à la borne positive de 12 V qui est alimentée quand la clé de contact est sur la position accessoires.
- **Rassembler tous les fils de terre en un point de masse commun.**

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoires
— Interrupteur POWER SELECT

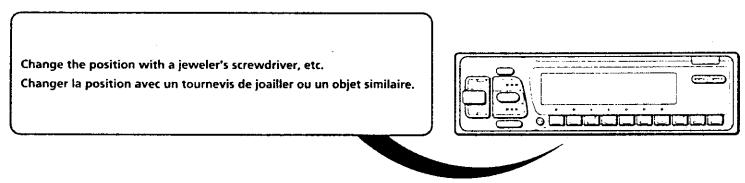
L'éclairage du panneau avant est réglé en usine de manière à s'allumer même quand l'appareil ne fonctionne pas. Cependant, ce réglage risque d'épuiser la batterie **si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoires.** Pour éviter d'épuiser la batterie, régler l'interrupteur **POWER sur le socle de l'appareil sur la position ⓑ, puis appuyer sur la touche de réinitialisation.** L'éclairage est réglé pour rester éteint quand l'appareil n'est pas utilisé.

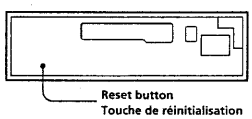
Remarque

Quand l'interrupteur POWER SELECT est réglé sur la position ⓑ, l'avertisseur du panneau avant ne fonctionne pas.

Touche de réinitialisation

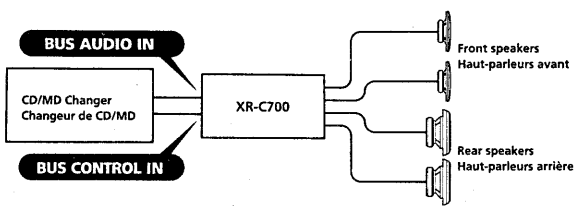
Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou un objet pointu.


Change the position with a jeweler's screwdriver, etc.
Changer la position avec un tournevis de joaillier ou un objet similaire.



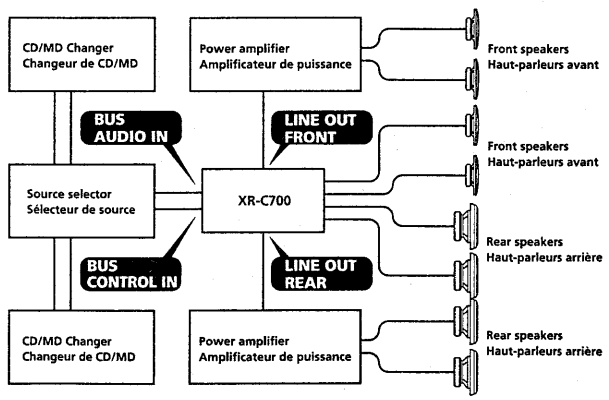
Connection Diagram

Example 1/Exemple 1



Schémas de connexion

Example 2/Exemple 2

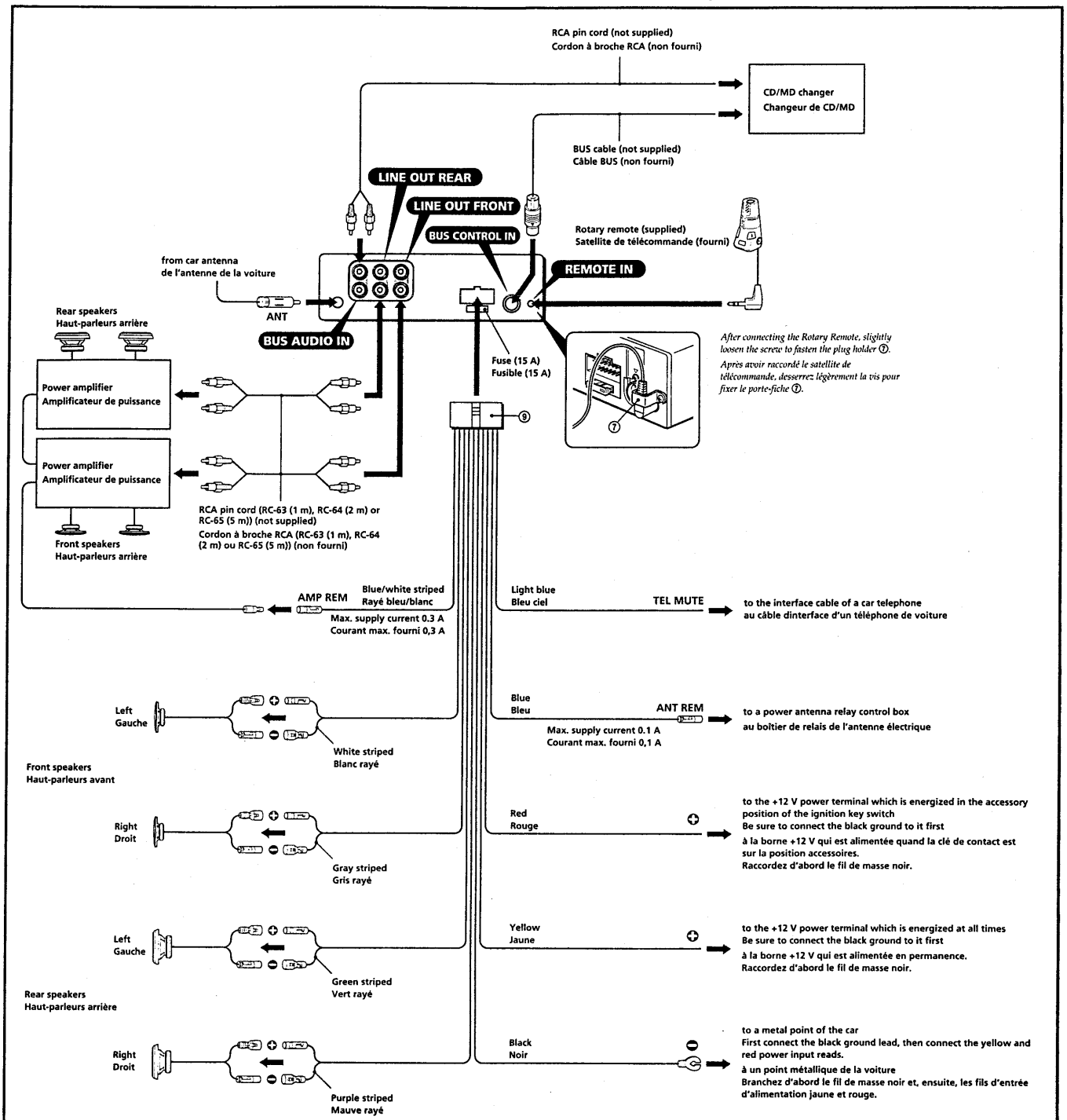


For connecting two or more changers, the source selector XA-U20 (optional) and the BUS cable RC-61 (1 m) or RC-62 (2 m) (optional) are necessary.

Pour le raccordement de deux ou plusieurs changeurs, vous devez utiliser le sélecteur de source XA-U20 (optionnels) et le câble BUS RC-61 (1 m) ou RC-62 (2 m) (optionnels).

Connections of Example

Connexions de l'exemple


RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
CD/MD changer
Changeur de CD/MD
BUS cable (not supplied)
Câble BUS (non fourni)
LINE OUT REAR
LINE OUT FRONT
BUS CONTROL IN
Rotary remote (supplied)
Satellite de télécommande (fourni)
REMOTE IN
from car antenna
de l'antenne de la voiture
ANT
BUS AUDIO IN
Rear speakers
Haut-parleurs arrière
Power amplifier
Amplificateur de puissance
Power amplifier
Amplificateur de puissance
Front speakers
Haut-parleurs arrière
RCA pin cord (RC-63 (1 m), RC-64 (2 m) or RC-65 (5 m)) (not supplied)
Cordon à broche RCA (RC-63 (1 m), RC-64 (2 m) ou RC-65 (5 m)) (non fourni)
Fuse (15 A)
Fusible (15 A)
After connecting the Rotary Remote, slightly loosen the screw to fasten the plug holder ⑦.
Après avoir raccordé le satellite de télécommande, desserrez légèrement la vis pour fixer le porte-fiche ⑦.
AMP REM
Blue/white striped
Rayé bleu/blanc
Max. supply current 0.3 A
Courant max. fourni 0,3 A
Light blue
Bleu ciel
TEL MUTE
to the interface cable of a car telephone
au câble dinterface d'un téléphone de voiture
Left
Gauche
White striped
Blanc rayé
Front speakers
Haut-parleurs avant
Blue
Bleu
ANT REM
to a power antenna relay control box
au boîtier de relais de l'antenne électrique
Max. supply current 0.1 A
Courant max. fourni 0,1 A
Right
Droit
Gray striped
Gris rayé
Red
Rouge
to the +12 V power terminal which is energized in the accessory position of the ignition key switch
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée quand la clé de contact est sur la position accessoires.
Raccordez d'abord le fil de masse noir.
Left
Gauche
Green striped
Vert rayé
Rear speakers
Haut-parleurs arrière
Yellow
Jaune
to the +12 V power terminal which is energized at all times
Be sure to connect the black ground to it first
à la borne +12 V qui est alimentée en permanence.
Raccordez d'abord le fil de masse noir.
Right
Droit
Purple striped
Mauve rayé
Black
Noir
to a metal point of the car
First connect the black ground lead, then connect the yellow and red power input reads.
à un point métallique de la voiture
Branchez d'abord le fil de masse noir et, ensuite, les fils d'entrée d'alimentation jaune et rouge.

Notes on the control leads

- *The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) Function.*
- *A power antenna without relay box cannot be used with this unit.*

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition key is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.*
- *Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.*

Remarques sur les fils de contrôle

- *Le fil de contrôle (bleu) de l'antenne électrique fournit un courant continu de +12 V quand le tuner est allumé ou quand la fonction ATA (Activation automatique du tuner) est mise en service.*
- *Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.*

Connexion pour la conservation de la mémoire

Lorsque le fil d'entrée d'alimentation jaune est connecté, le circuit de la mémoire est alimenté en permanence même si la clé de contact est sur la position d'arrêt.

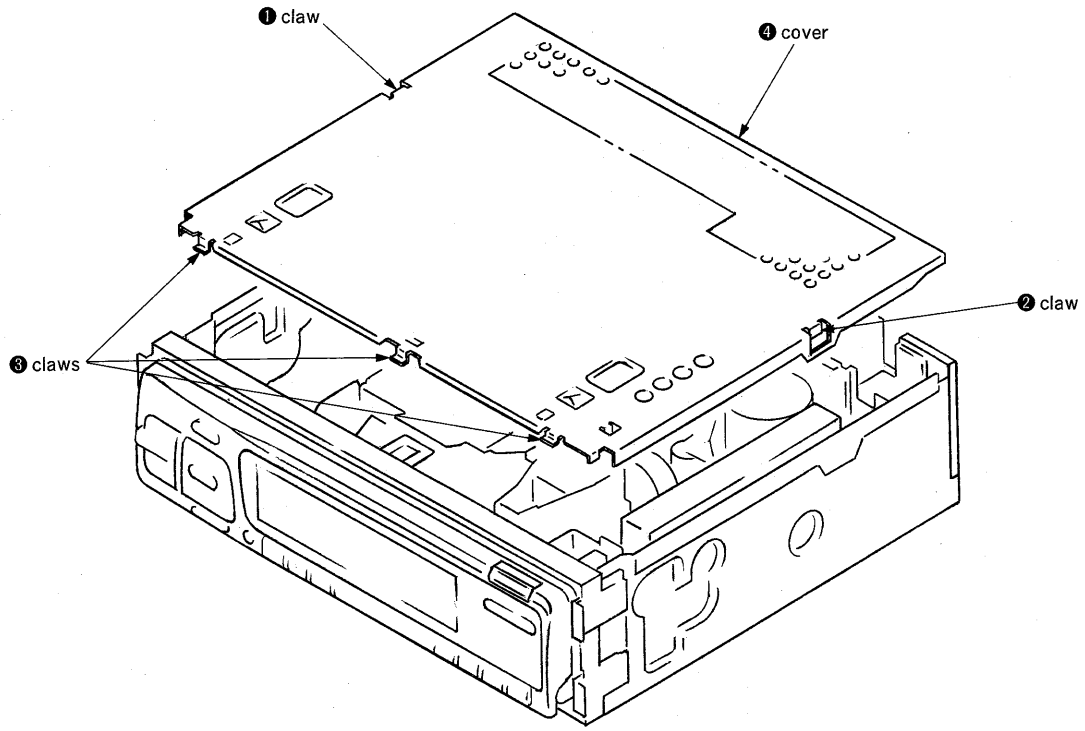
Remarques sur la connexion des haut-parleurs

- *Avant de raccorder les haut-parleurs, mettre l'appareil hors tension.*
- *Utiliser des haut-parleurs ayant une impédance de 4 à 8 ohms et une capacité adéquate sous peine de les endommager.*
- *Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.*
- *Ne pas tenter de raccorder les haut-parleurs en parallèle.*
- *Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.*

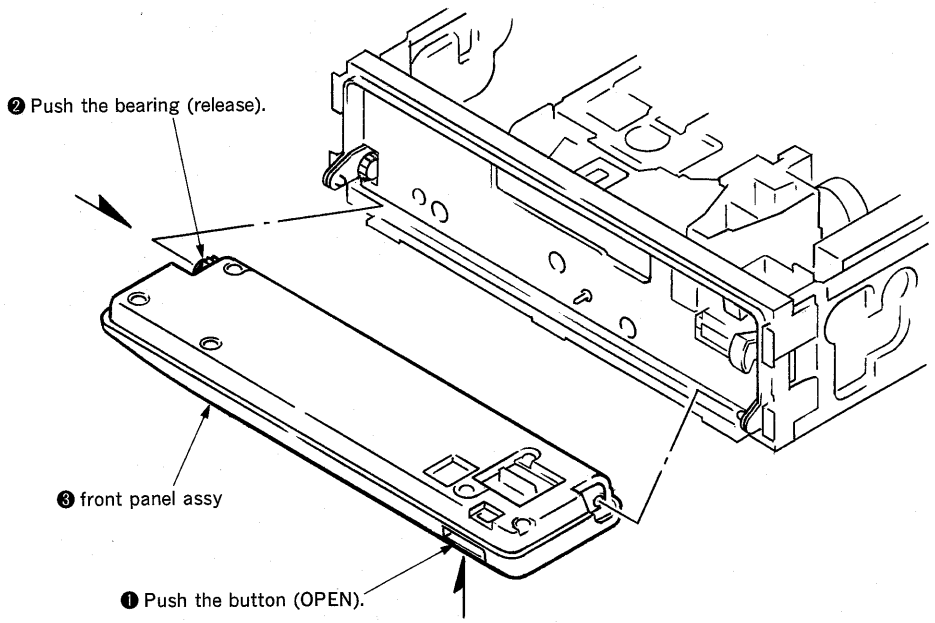
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

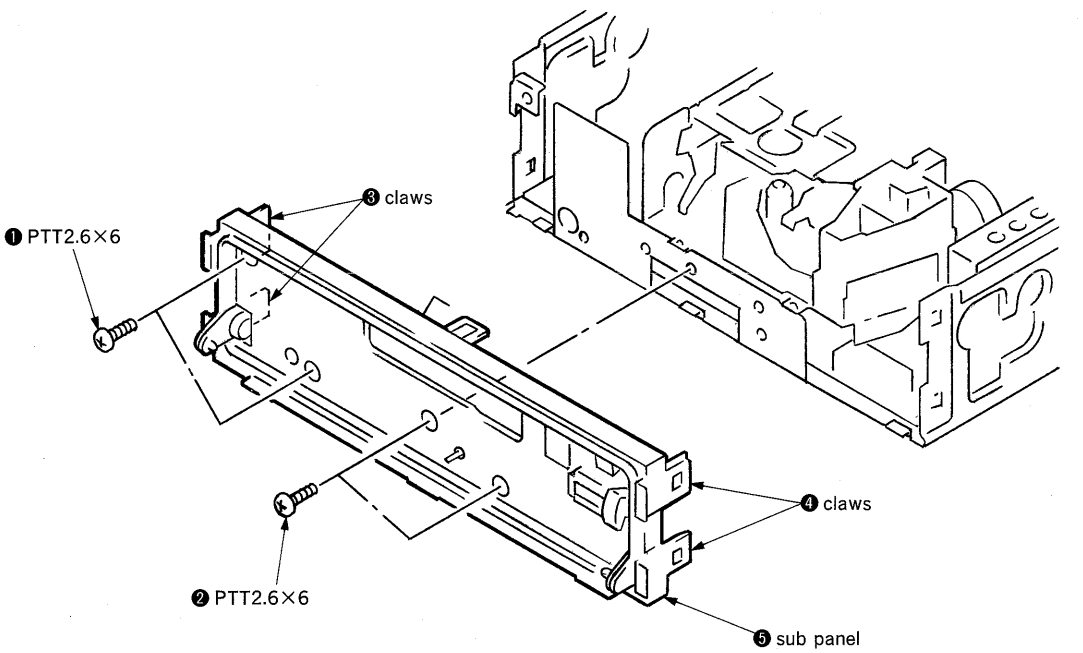
2-1. COVER



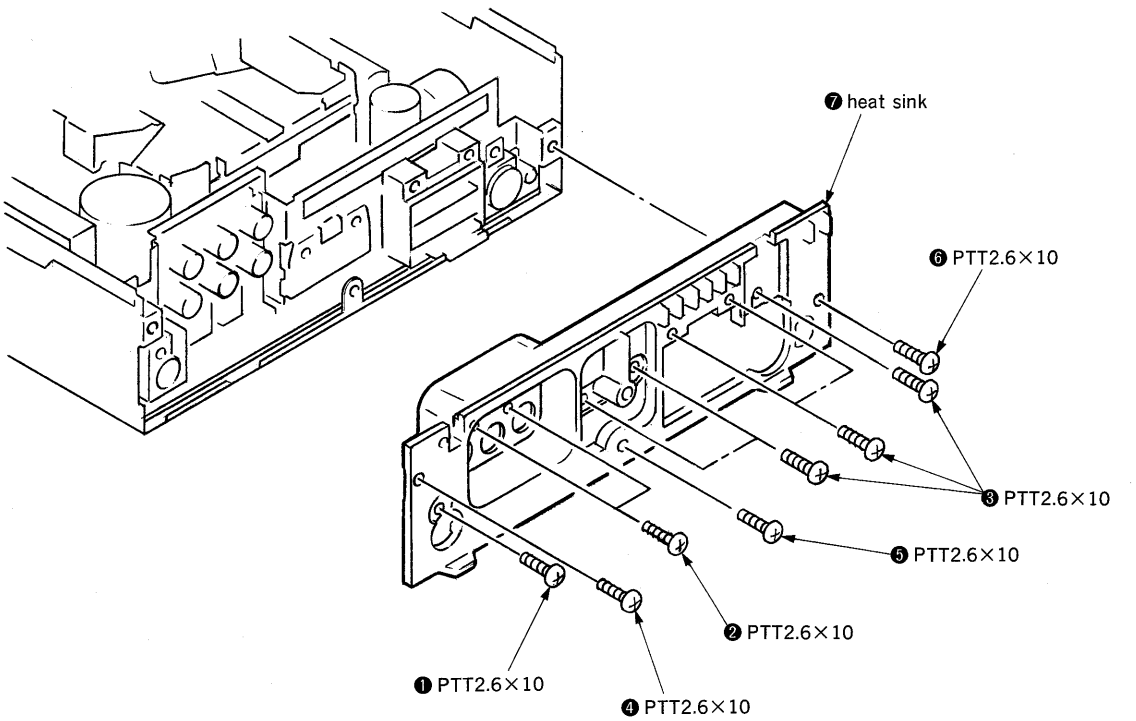
2-2. FRONT PANEL ASSY



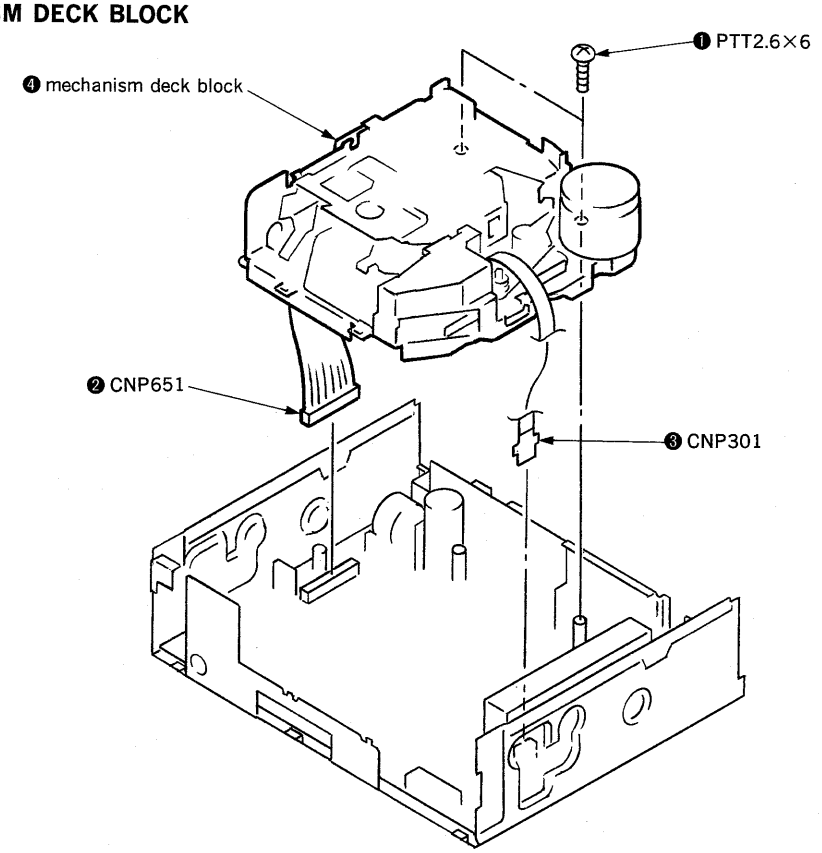
2-3. SUB PANEL



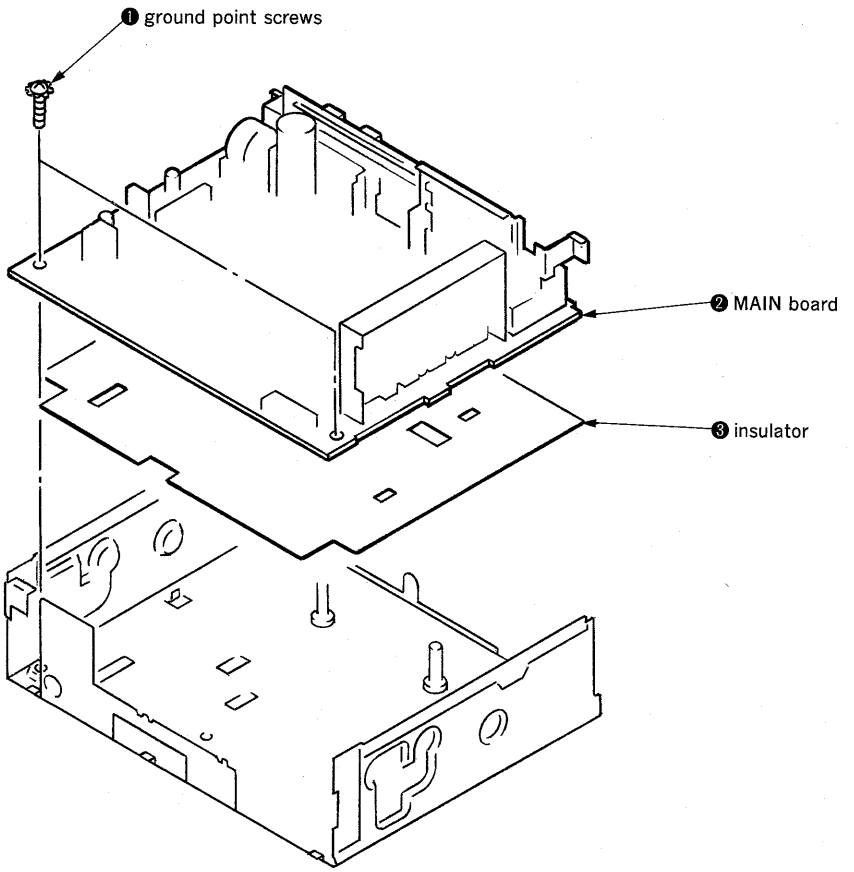
2-4. HEAT SINK



2-5. MECHANISM DECK BLOCK



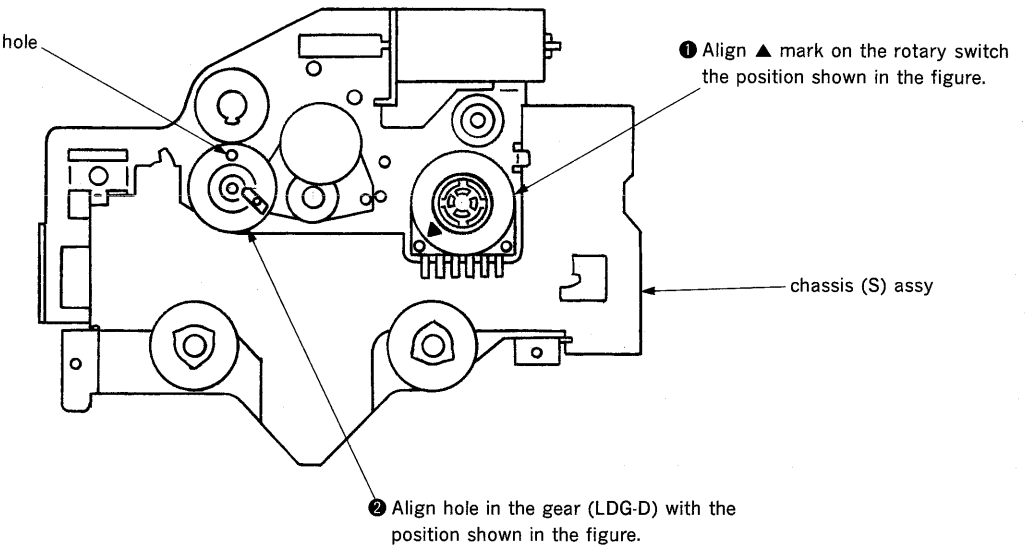
2-6. MAIN BOARD



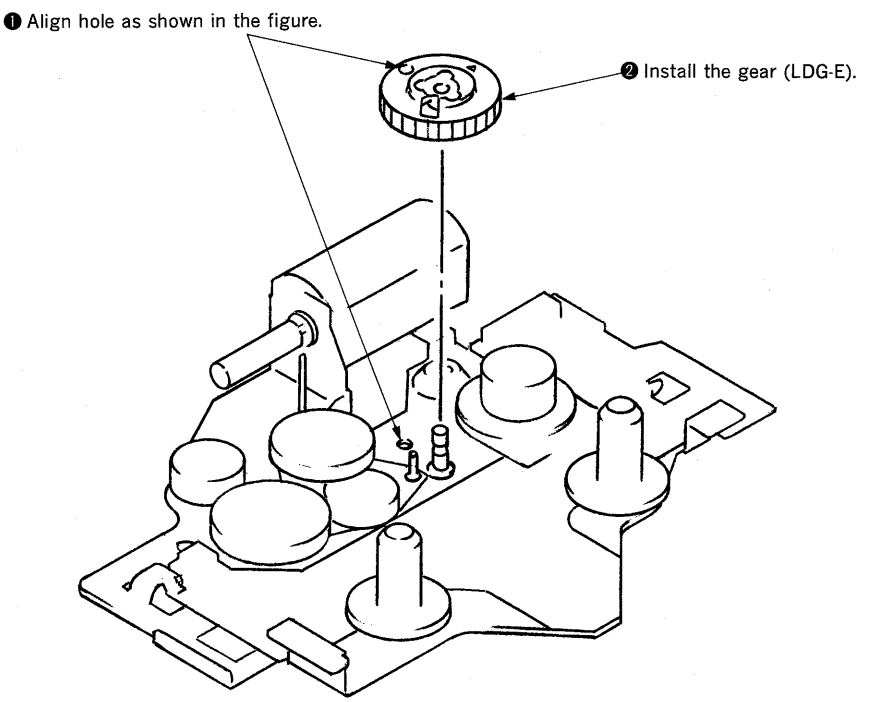
SECTION 3
ASSEMBLY OF MECHANISM DECK

Note : Follow the assembly procedure in the numerical order given.

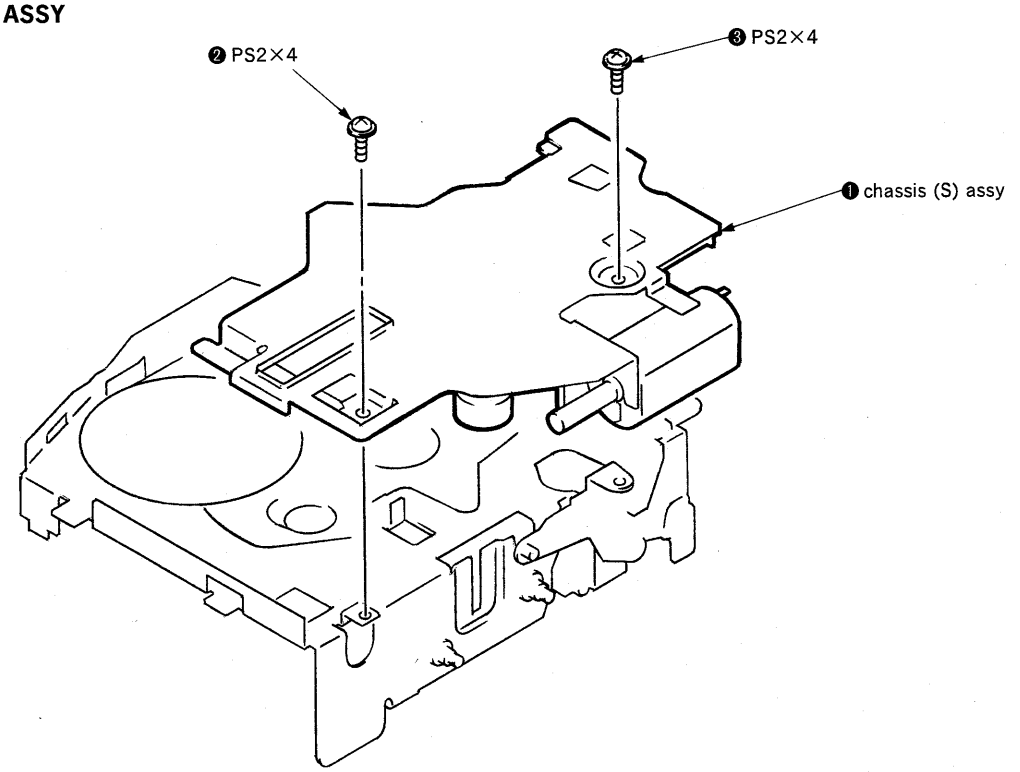
3-1. ALIGNMENT OF ROTARY SWITCH


hole
❶ Align ▲ mark on the rotary switch the position shown in the figure.
chassis (S) assy
❷ Align hole in the gear (LDG-D) with the position shown in the figure.

3-2. GEAR (LDG-E)



3-3. CHASSIS (S) ASSY



3-4. LEVER (MODE)

1) Align ▲ mark on the rotary switch with hole in the lever (mode). (See Fig. 1)
2) Fit on positions Ⓐ, Ⓑ and Ⓒ and install the lever (mode).

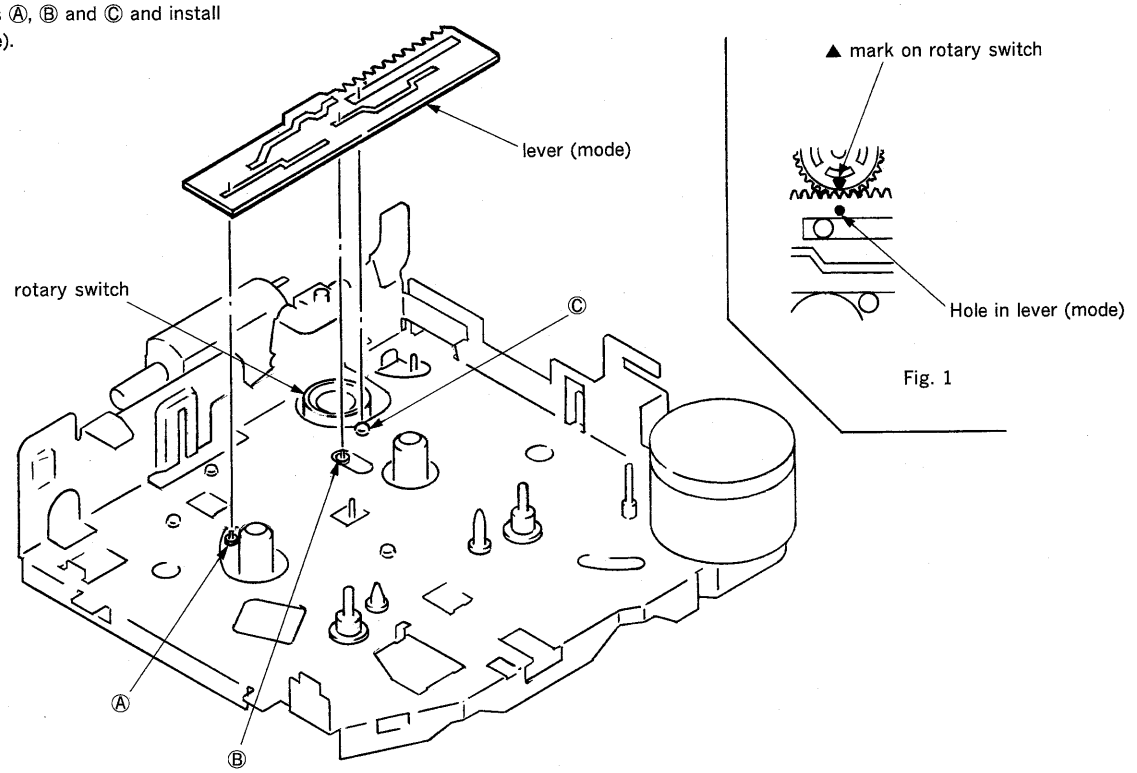
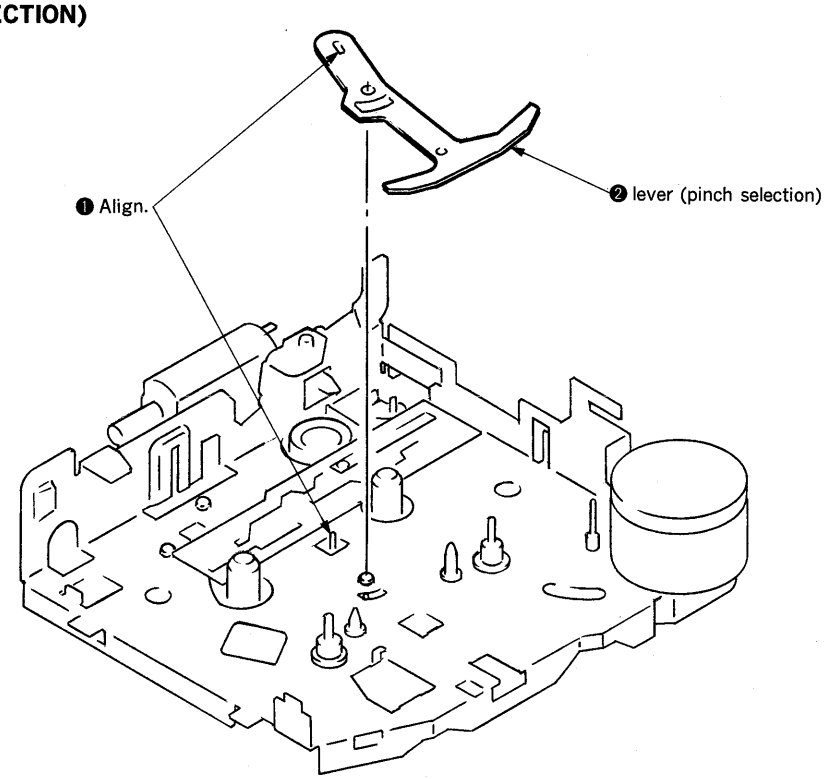
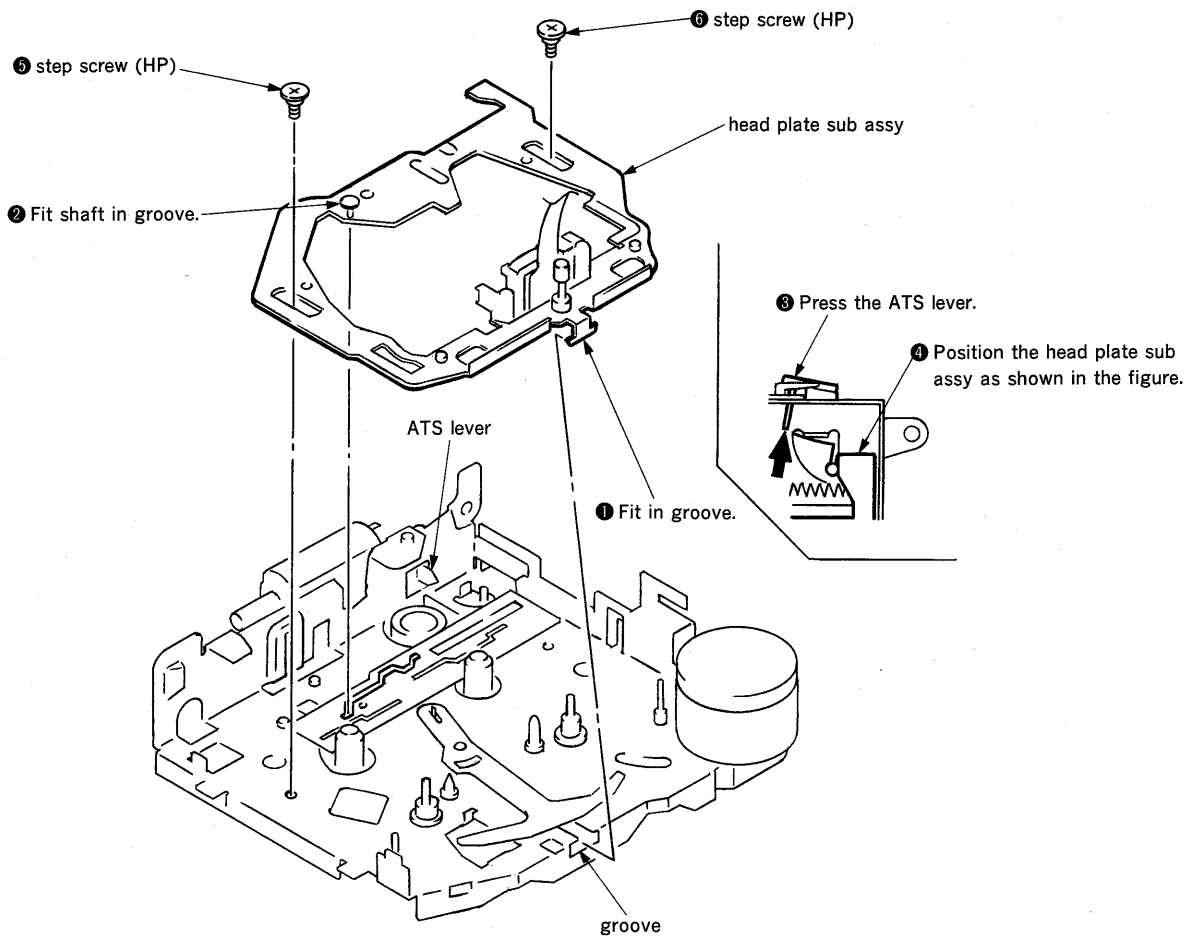


Fig. 1

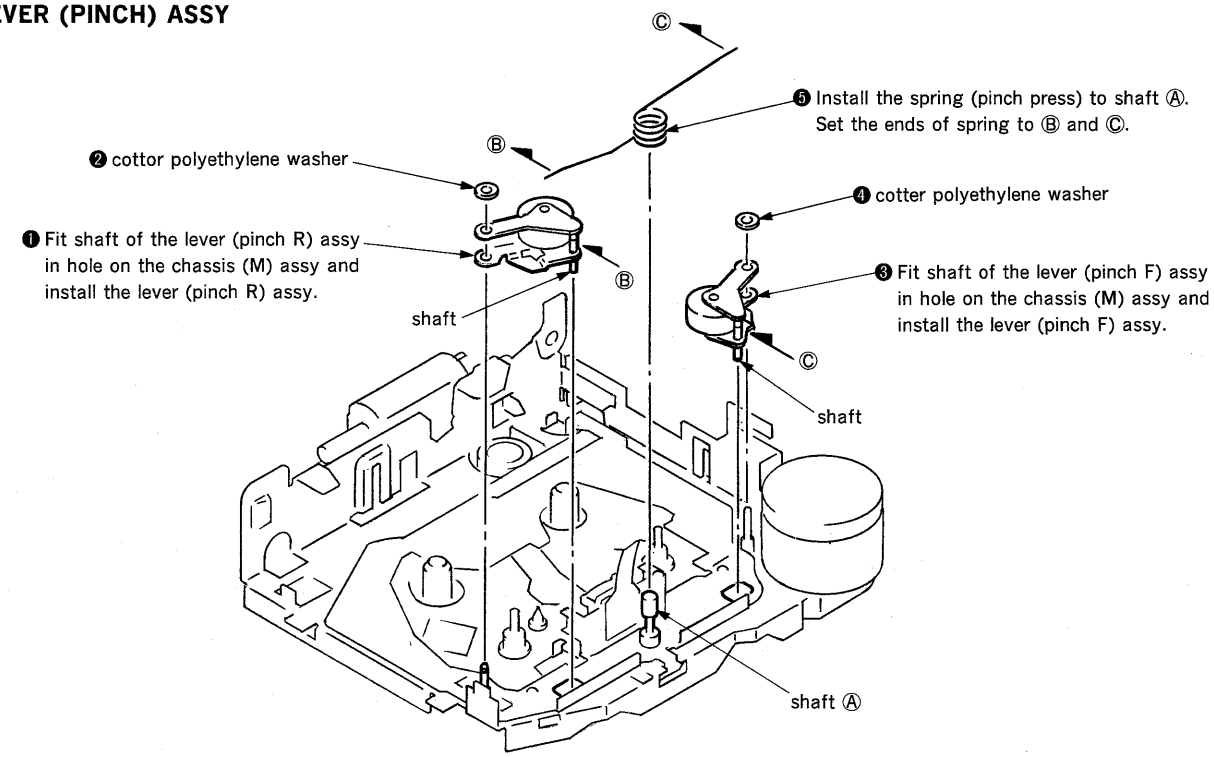
3-5. LEVER (PINCH SELECTION)



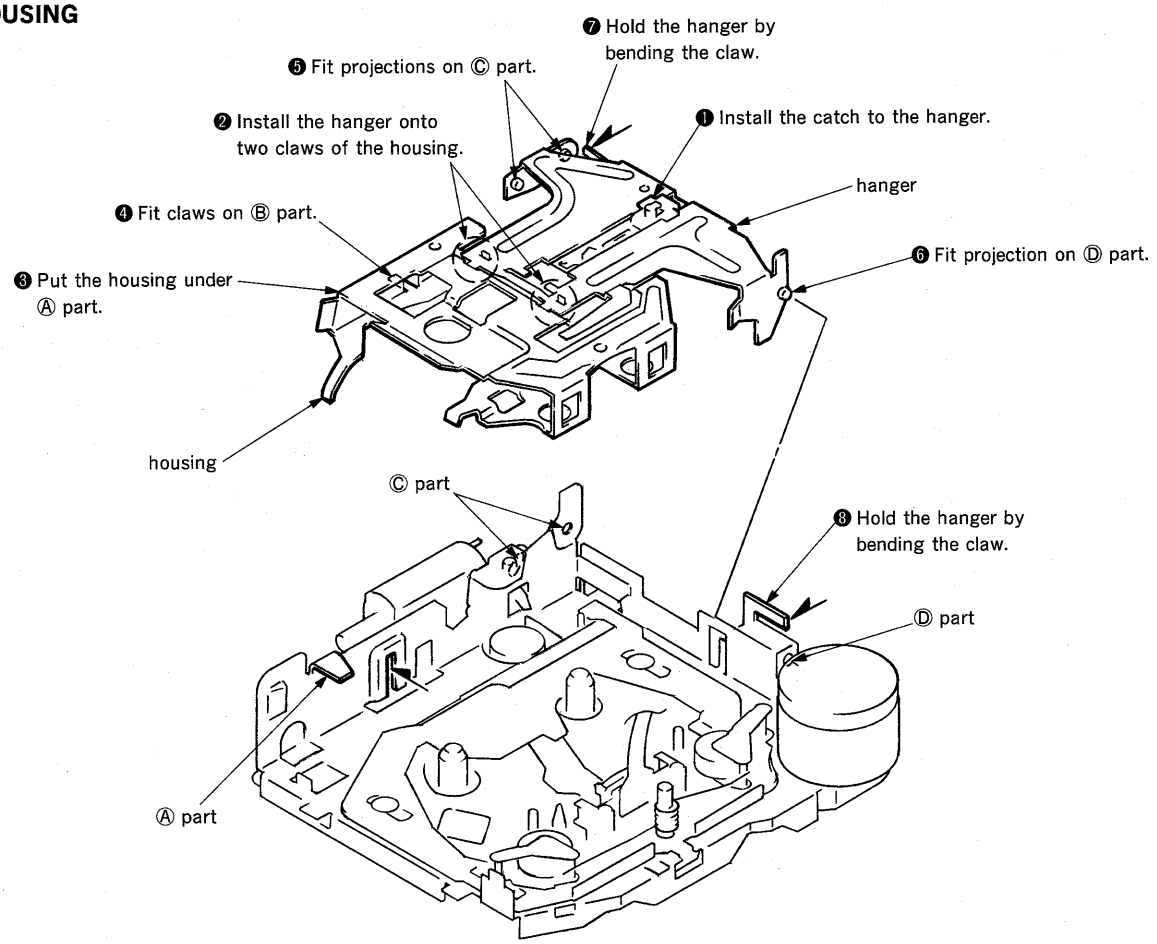
3-6. HEAD PLATE ASSY


❻ step screw (HP)
❺ step screw (HP)
head plate sub assy
❷ Fit shaft in groove.
❸ Press the ATS lever.
❹ Position the head plate sub assy as shown in the figure.
ATS lever
❶ Fit in groove.
groove

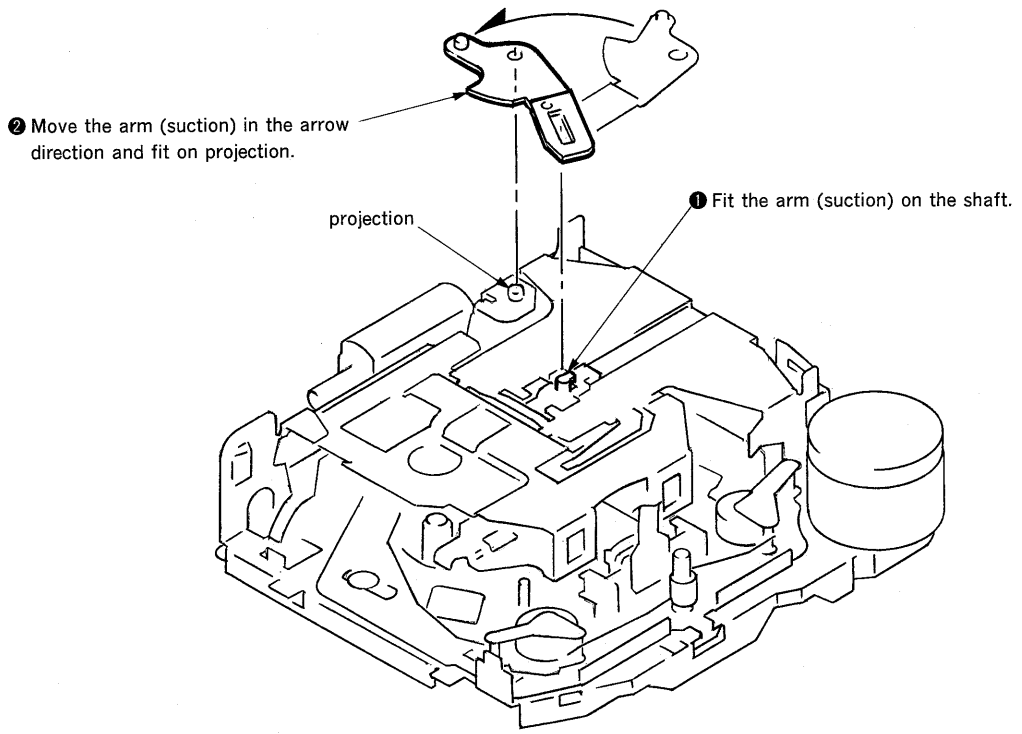
3-7. LEVER (PINCH) ASSY


Ⓒ
❺ Install the spring (pinch press) to shaft Ⓐ.
Set the ends of spring to Ⓑ and Ⓒ.
Ⓑ
❷ cottor polyethylene washer
❹ cotter polyethylene washer
❶ Fit shaft of the lever (pinch R) assy
in hole on the chassis (M) assy and
install the lever (pinch R) assy.
Ⓑ
❸ Fit shaft of the lever (pinch F) assy
in hole on the chassis (M) assy and
install the lever (pinch F) assy.
shaft
Ⓒ
shaft
shaft Ⓐ

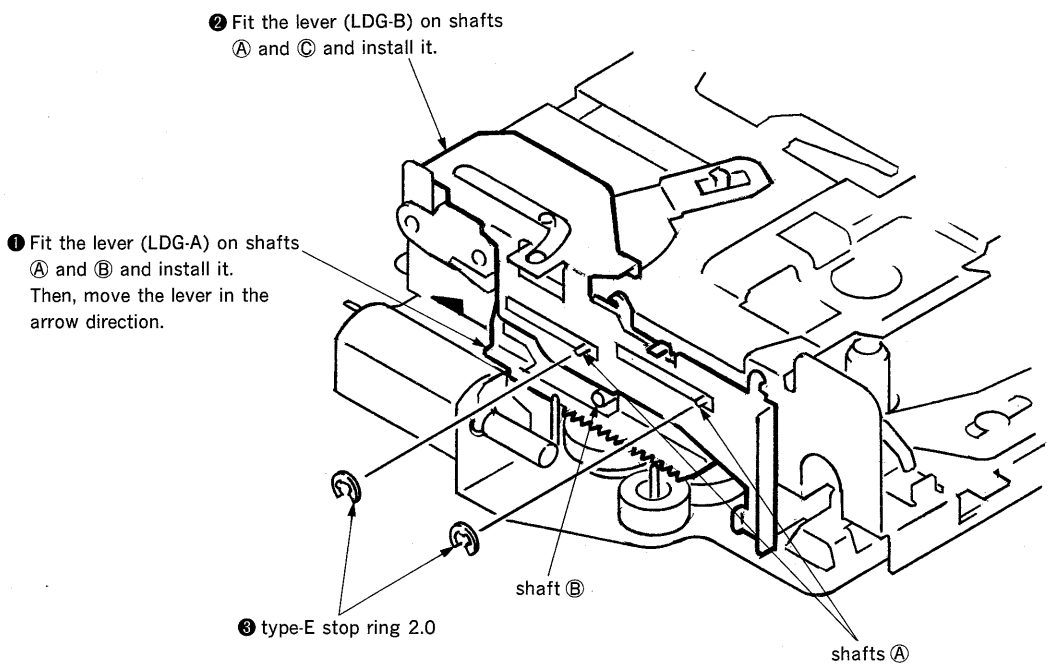
3-8. HOUSING



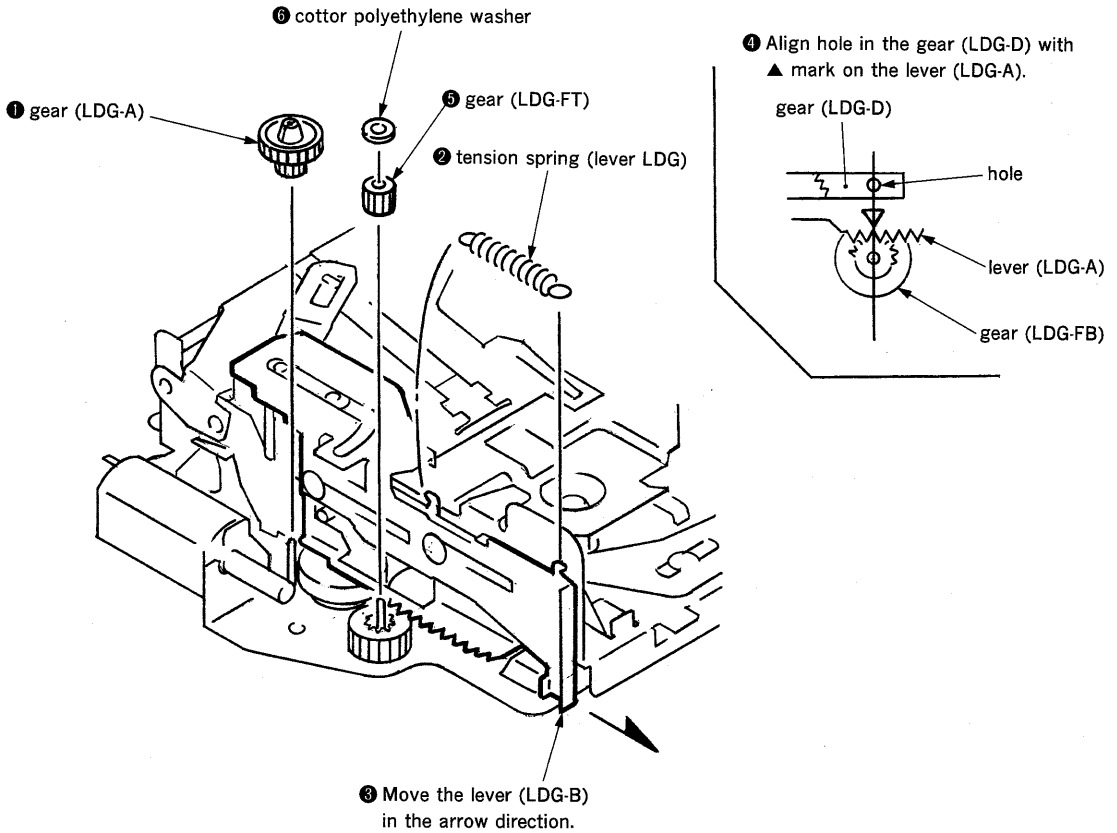
3-9. ARM (SUCTION)



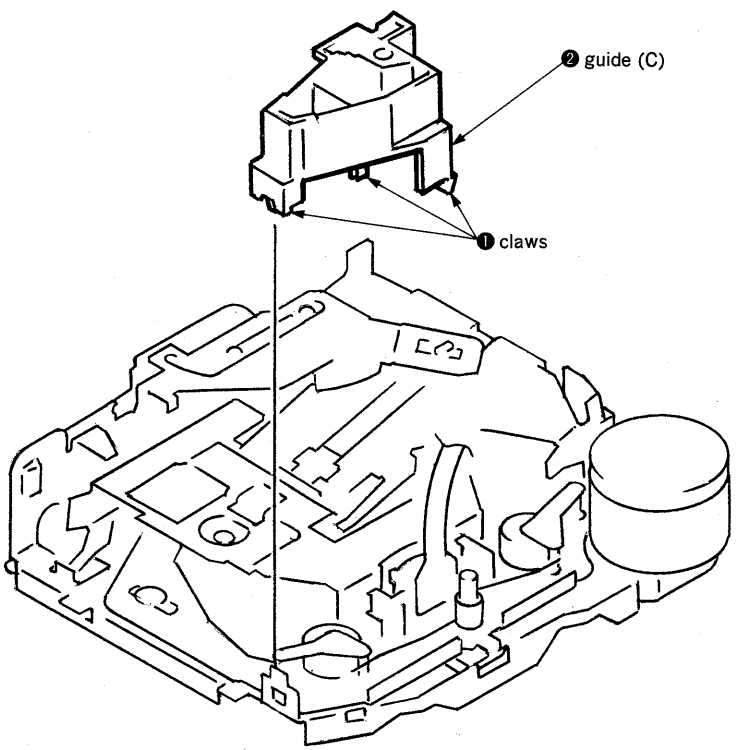
3-10. LEVER (LDG-B)


❷ Fit the lever (LDG-B) on shafts Ⓐ and Ⓒ and install it.
❶ Fit the lever (LDG-A) on shafts Ⓐ and Ⓑ and install it. Then, move the lever in the arrow direction.
shaft Ⓑ
❸ type-E stop ring 2.0
shafts Ⓐ

3-11. GEAR (LDG-FT)


❻ cottor polyethylene washer
❶ gear (LDG-A)
❺ gear (LDG-FT)
❷ tension spring (lever LDG)
❸ Move the lever (LDG-B) in the arrow direction.
❹ Align hole in the gear (LDG-D) with ▲ mark on the lever (LDG-A).
gear (LDG-D)
hole
lever (LDG-A)
gear (LDG-FB)

3-12. GUIDE (C)



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head　　Pinch roller
   Idler　　Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	35−65g•cm (0.49−0.90 oz•inch)
FWD Back Tension		0.5−5.0g•cm (0.01−0.07 oz•inch)
REV	CQ-102RC	35−65g•cm (0.49−0.90 oz•inch)
REV Back Tension		0.5−5.0g•cm (0.01−0.07 oz•inch)
FF, REW	CQ-201B	60−200g•cm (0.83−2.78 oz•inch)

Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 60g (more than 2.12 oz)
REV	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENTS

TEST MODE

This set have the test mode function. In the test mode, FM Auto Scan/Stop Level and AM Auto Scan/Stop Level adjustments can be performed easier than it in ordinary procedure.

〈Set the Test Mode〉

1. Set the "OFF" mode.
2. Push the preset [4] button.
3. Push the preset [5] button.
4. Press the preset [1] button for more than two seconds.
5. Then the display indicates all lights, the test mode is set.

〈Release the Test mode〉

1. Push the "OFF" button.

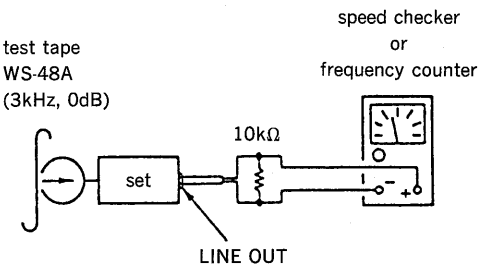
See the adjustment location from on page 24 for the adjustment.

DECK SECTION　**0dB=0.775V**

Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.



Specification: Constant speed

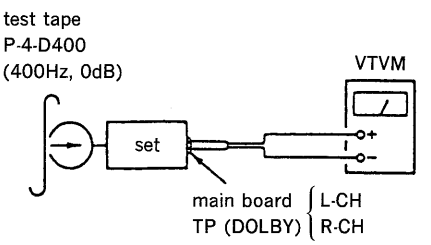
Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location: See page 24.

DOLBY Level Adjustment

Setting:

SHIFT button　: ON (light up SET UP and PLAY MODE)
Preset [3] (PLAY MODE) button: NR OFF
SOUND (BAS) button　: Center
SOUND (TRE) button　: Center
SOUND (BAL) button　: Center
SOUND (FAD) button　: Center
SOUND (VOL) button　: Maximum



Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV121 (L-CH) and RV221 (R-CH) so that VTVM reading is −6±0.5 dB (0.37 to 0.41V).

Adjustment Location: See page 24.

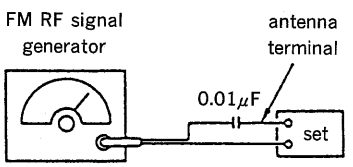
TUNER SECTION | **0dB=1μV**

Cautions during repair
When the tuner unit is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : FM

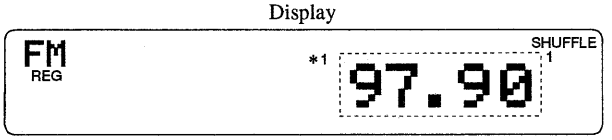


Carrier frequency : 97.90MHz (US, Canadian model)
98.00MHz (E model)
Output level : 22dB (12.6μV)
Mode : mono
Modulation : 1kHz, 22.5kHz deviation (30%)

Procedure :

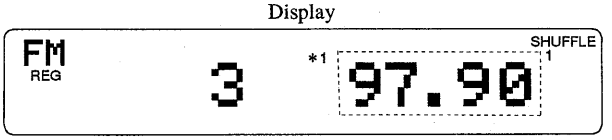
1. Set to the test mode. (See page 21.)
2. Push the [SOURCE] button and set to FM.

Display



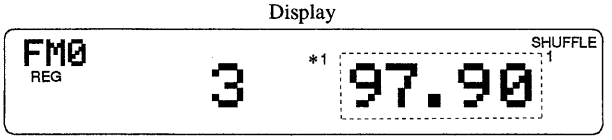
3. Push the preset [3] button.

Display



4. Adjust with the volume RV2 on TU1 so that the "FM" indication turns to "FM0" indication on the display window.
   But, in case of already indicated "FM0", turn the RV2 so that put out light "0" indication and adjustment.

Display



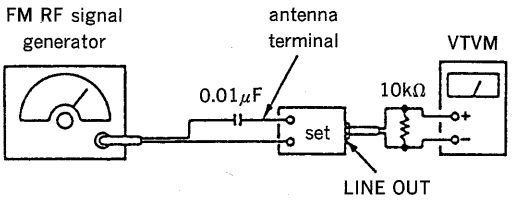
* 1 : E model are indicates "98.00".

Adjustment Location : See page 24.

FM Noise Focus Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 97.90MHz (US, Canadian model)
98.00MHz (E model)
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation (100%)

Procedure :

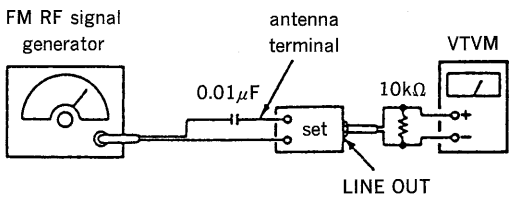
1. Tune the 97.9MHz.
2. The then output level is supposing that (A) dB.
3. Adjust with the volume RV3 on TU1 so that the output level is (A)−32dB then signal generator input set to −20dB.

Adjustment Location : See page 24.

FM Stereo Separation Adjustment

Setting :

SOURCE button : FM



Carrier frequency : 97.90MHz (US, Canadian model)
98.00MHz (E model)
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main : 1kHz, 33.75kHz deviation (45%)
sub : 1kHz, 33.75kHz deviation (45%)
19kHz pilot : 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV4 on TU1 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV4 on TU1 for minimum reading.

L-CH Stereo separation : Ⓐ−Ⓑ
R-CH Stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.

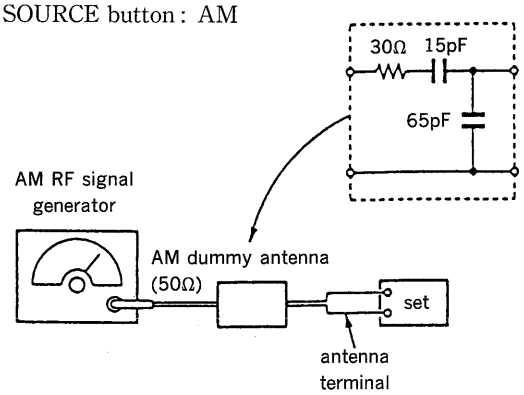
Specification : Separation more than 30dB

Adjustment Location : See page 24.

AM Auto Scan/Stop Level Adjustment

Setting :

SOURCE button : AM

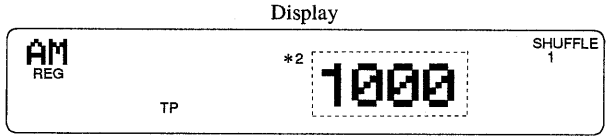


Carrier frequency : 1000kHz (US, Canadian model)
999kHz (E model)
30% amplitude modulation by 1kHz signal
Output level : 33dB (44.7μV)

Procedure :

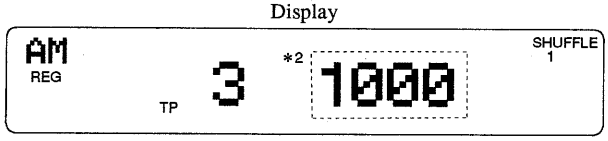
1. Set to the test mode. (See page 21.)
2. Push the SOURCE button and set to AM.

Display



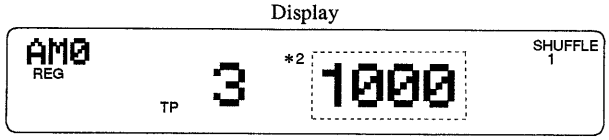
3. Push the preset 3 button.

Display



4. Adjust with the volume RV1 on TU1 so that the "AM" indication turns to "AM0" indication on the display window.
But, in case of already indicated "AM0", turn the RV1 so that put out light "0" indication and adjustment.

Display

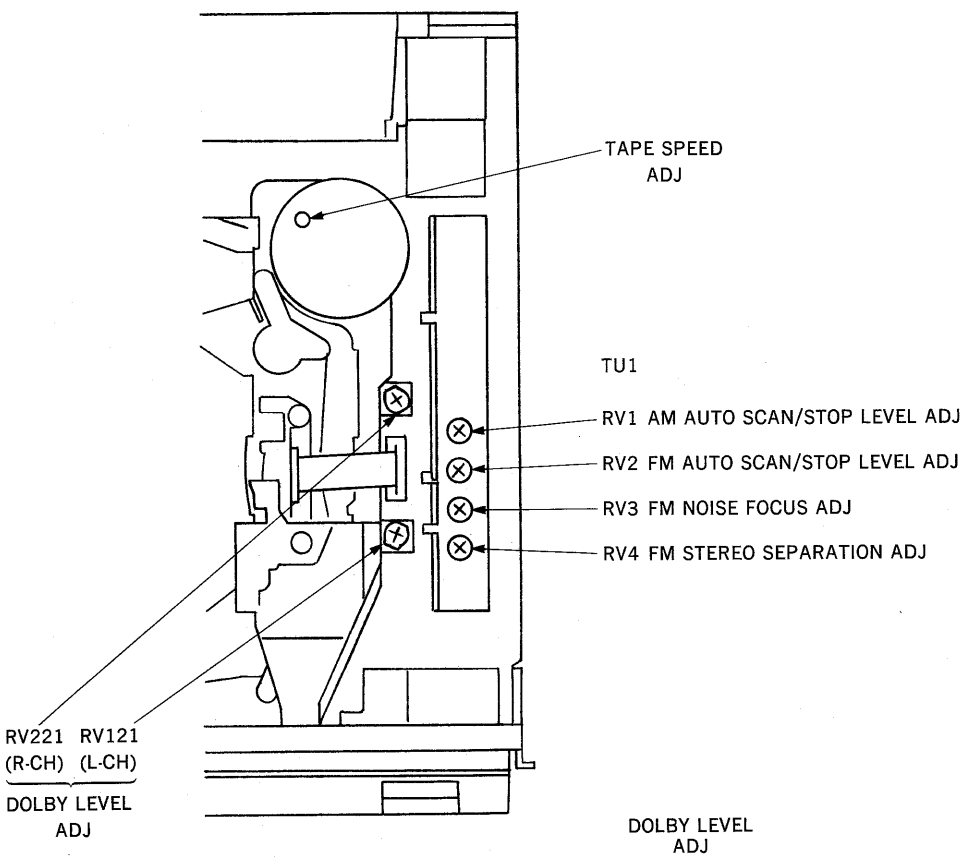


* 2 : E model are indicates "999".

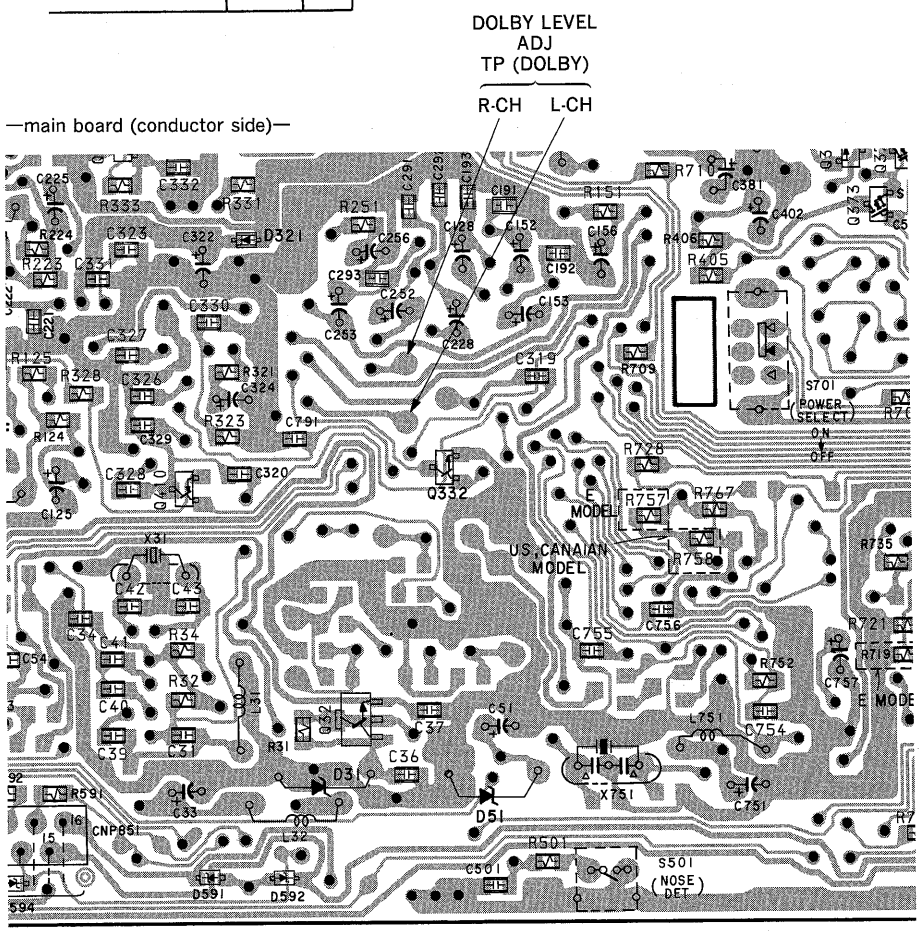
Adjustment Location : See page 24.

Adjustment Location :

—SET UPPER VIEW—


TAPE SPEED ADJ
TU1
RV1 AM AUTO SCAN/STOP LEVEL ADJ
RV2 FM AUTO SCAN/STOP LEVEL ADJ
RV3 FM NOISE FOCUS ADJ
RV4 FM STEREO SEPARATION ADJ
RV221 (R-CH) RV121 (L-CH)
DOLBY LEVEL ADJ

—main board (conductor side)—



SECTION 6
DIAGRAMS

6-1. IC PIN DESCRIPTIONS

• IC701 μPD78058GC-210-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	DSTSEL1	I	Destination the first setting A/D input
2	RC IN0	I	Rotary commander input
3	NIL	I	
4	AVSS	—	GND
5, 6	(NC)	—	Not used.
7	AVREF	—	D/A conversion reference power supply voltage
8—10	(NC)	—	Not used.
11	COLSEL	I	Illumination color select input. Fixed at "L" (AMBER).
12	LCDSO	O	LCD serial data output
13	LCDCKO	O	LCD serial clock output
14	LCDCE	O	LCD chip enable output
15	$\overline{\text{LCDINH}}$	O	LCD blank display control output
16	UNISI	I	Serial data input
17	UNISO	O	Serial data output
18	UNICKI	I	Serial clock input
19	UNICKO	O	Serial clock output
20	$\overline{\text{BUSON}}$	O	BUS ON control output
21	$\overline{\text{SYSRST}}$	O	System reset control output
22	AMPON	O	Power amplifier power control output
23, 24	(NC)	—	Not used.
25	PW ON	O	System power control output
26	$\overline{\text{ILLON}}$	O	Illumination power control output
27	COLOR	I/O	Illumination color select control input/output
28	$\overline{\text{AMSON}}$	O	Tape AMS (Auto Music Sensor) control output
29	REL	I	Reel table rotation detect input
30	$\overline{\text{MTLIN}}$	I	Auto METAL detect input
31, 32	POS3, POS2	I	Position signal detect input
33	GND	—	GND
34, 35	POS1, POS0	I	Position signal detect input
36	LM LOD	O	Loading motor control output (Loading direction : forward)
37	LM EJ	O	Loading motor control output (Eject direction : reverse)
38	N/R OUT	O	Forward/Reverse detect output
39	MTLON	O	METAL control output
40	CMON	O	Capstan motor control output
41	TAPON	O	Tape power control output
42	PWSEL	I	Power select the first setting input
43	RC IN1	I	Rotary commander input
44	$\overline{\text{TESTIN}}$	I	Test mode setting input
45	BEEP	O	Buzzer control output
46	$\overline{\text{EQSEL}}$	I	Equalizer connection with/without the first setting input
47	MUT	O	System mute control output
48	VOL CE	O	Electronic volume serial chip enable output
49	SUB CE	O	Sub volume serial chip enable output. Not used in this set.

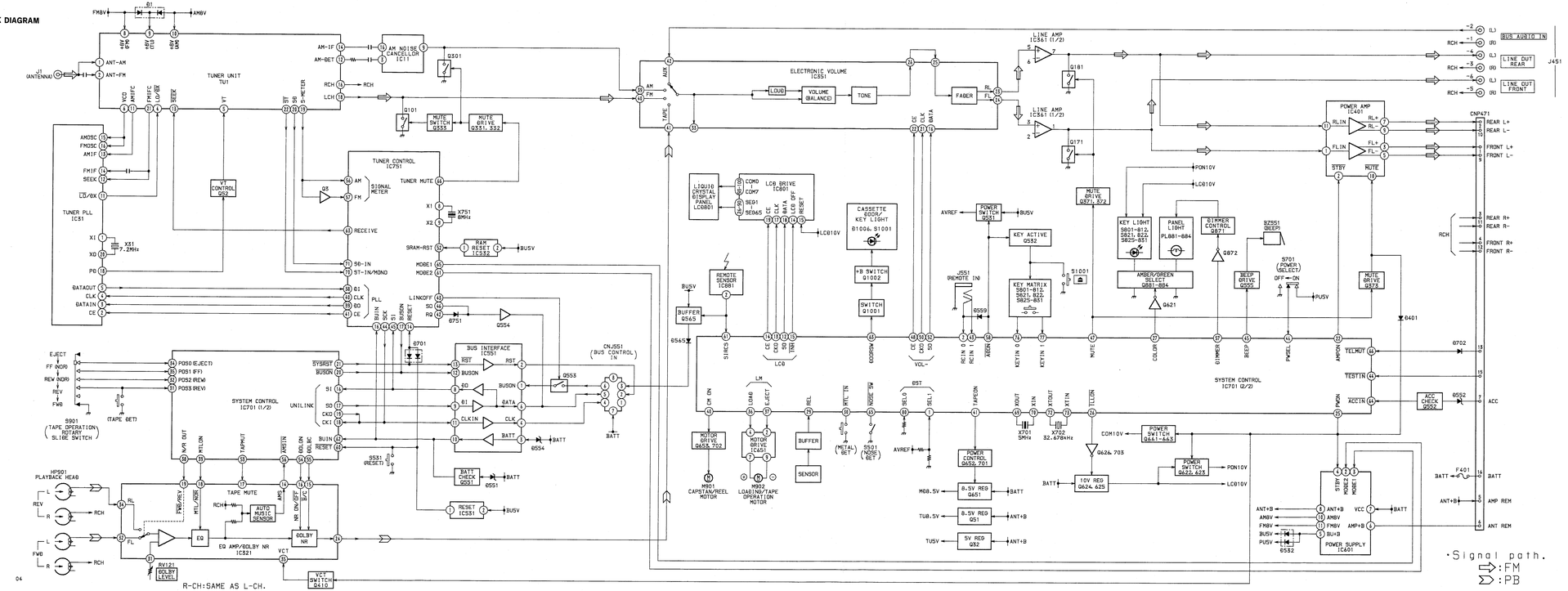
Pin No.	Pin Name	I/O	Pin Description
50	VOL CKO	O	Electronic volume serial clock output
51	SUB CKO	O	Sub volume serial clock output. Not used in this set.
52	VOL SO	O	Electronic volume serial data output
53	TAPMUT	O	Tape mute control output
54	DOLON	I/O	DOLBY control input/output
55	DOLBC	I/O	DOLBY B/C select control input/output
56	$\overline{\text{AMSIN}}$	I	At AMS, music with/without detect input
57	DIMMER	I/O	Dimmer control input/output
58	$\overline{\text{AD ON}}$	O	A/D select power control output
59	RAMBU	I	RAM reset detect input
60	$\overline{\text{RESET}}$	I	Reset input
61	SIRCS	I	Remote commander input
62	BUIN	I	Back-up power detect input
63	$\overline{\text{DOORSW}}$	I	Front panel open/close detect input
64	$\overline{\text{ACCIN}}$	I	Accessory power detect input
65	$\overline{\text{NOSESW}}$	I	Front panel with/without detect input
66	$\overline{\text{TELMUT}}$	I	Telephone mute detect input
67	KEYACK	I	Key input acknowledge
68	VDD	—	Microcomputer power voltage supply
69	X OUT	—	Main ceramic oscillator output (5MHz)
70	X IN	—	Main ceramic oscillator input (5MHz)
71	GND	—	GND
72	XT OUT	—	Sub crystal oscillator output (32.768kHz)
73	XT IN	—	Sub crystal oscillator input (32.768kHz)
74	AVDD	—	A/D conversion power supply voltage
75	AVREF	—	A/D conversion reference power supply voltage
76, 77	KEYIN0, KEYIN1	I	Key input
78	(FUNCSEL0)	I	Key function select the first setting input
79	FUNCSEL1	I	Key function select the first setting input
80	DSTSEL0	I	Destination the first setting A/D input

• IC751 MN1883220S4B1 (TUNER CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1—6	—	—	Not used. (Open)
7	VDD	—	Power supply terminal (+5V)
8	X1	—	Clock input (8MHz)
9	X2	—	Clock output (8MHz)
10	GND	—	GND
11	XI	—	Not used. (Connect to GND.)
12	XO	—	Not used. (Open)
13	EX2	—	Not used. (Connect to GND.)
14	RESET	I	Reset input
15	RDS-CLK	I	RDS CLK signal input. (Fixed at "L".)
16	BU IN	I	Back-up power supply detection input. "H" : Back-up ON
17	BUSON	I	BUS interface ON/OFF selection input from the System Control (IC701).
18—29	—	—	Not used. (Open)
30	RDS-DATA	I	RDS DATA signal input. (Fixed at "L".)
31, 32	—	—	Not used. (Fixed at "L".)
33—35	—	—	Not used. (Open)
36, 37	—	—	Not used. (Connect to GND.)
38	PLL-DI	I	Data input from the PLL (IC31).
39	PLL-DO	O	Data output to the PLL (IC31).
40	PLL-CLK	O	Clock output to the PLL (IC31).
41	CE	O	Chip enable output to the PLL (IC31).
42	RQ	O	BUS interface request output. Terminal for requesting communication requests at "H".
43	LINK-OFF	O	BUS interface link ON/OFF selection output. "H" : LINK OFF
44	SCK	I	Serial clock input from the System Control (IC701).
45	SI	I	Data input from the BUS interface (IC551).
46	SO	O	Data output to the BUS interface (IC551).
47	VDD	—	Power supply terminal (+5V)
48	AVDD	—	Power supply terminal (+5V)
49	VREF	I	Reference voltage input terminal of A/D conversion.
50, 51	—	—	Not used. (Connect to GND.)
52	SRAM-RST	I	SRAM reset input
53	MUTE-SEL	—	Not used. (Connect to GND.)
54	DIST-SEL1	I	Desination selection input terminal. (Fixed at "L" : US,Canadian model, "H" : E model.)
55	DIST-SEL0	I	Desination selection input terminal. (Fixed at "H".)
56	AM-S. METER	I	AM S meter voltage detection input
57	FM-S. METER	I	FM S meter voltage detection input. Uses the A/D conversion functions during BTM and RDS.
58—60	—	—	Not used. (Connect to GND.)
61	MODE2	O	Tuner ON/OFF selection output to the Power Supply (IC601).
62	—	—	Not used. (Open)
63	RECEIVE	I	Receive input. Input level "L" when change the frequency.
64	—	—	Not used. (Fixed at "L".)
65	MODE1	O	FM ON/OFF selection output to the Power Supply (IC601).
66	TUNER-MUTE	O	Muting control signal output
67	AF-SEEK	O	Not used. (Open)

Pin No.	Pin Name	I/O	Pin Description
68	—	—	Not used. (Fixed at "L".)
69	—	—	Not used. (Open)
70	ST-IN/MONO	I	STEREO indicator control input
71	SD-IN	I	SD input
72—80	—	—	Not used. (Open)

6-2. BLOCK DIAGRAM



6-3. PRINTED WIRING BOARDS—MAIN SECTION—

SEE ADDITIONAL INFORMATION

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	F-12	IC351	F-7
D31	I-15	IC361	D-7
D51	I-16	IC371	D-8
D321	F-15	IC401	B-17
D371	E-17	IC531	H-2
D372	E-17	IC532	G-2
D401	F-6	IC551	E-3
D402	B-7	IC601	E-19
D403	D-18	IC651	F-2
D404	D-19	IC701	G-4
D405	E-6	IC751	H-6
D471	D-19		
D472	C-4	Q3	H-13
D473	C-5	Q32	I-15
D501	I-5	Q51	I-7
D502	I-4	Q52	I-10
D531	G-21	Q101	E-10
D532	G-21	Q171	B-8
D533	I-21	Q181	B-9
D534	I-4	Q201	E-13
D551	F-3	Q271	B-8
D552	F-5	Q281	B-9
D553	E-19	Q301	D-14
D554	E-19	Q331	F-8
D555	C-22	Q332	G-16
D556	C-21	Q333	F-14
D557	C-22	Q371	F-18
D558	C-21	Q372	F-18
D559	D-21	Q373	F-18
D565	F-3	Q410	H-15
D575	E-3	Q531	I-4
D591	J-15	Q532	I-4
D592	J-15	Q551	F-19
D594	J-14	Q552	F-19
D595	I-13	Q553	D-3
D596	J-8	Q554	E-20
D597	I-13	Q555	J-20
D598	J-13	Q565	F-20
D621	H-21	Q621	I-20
D651	G-21	Q622	I-21
D652	E-21	Q623	I-20
D661	D-17	Q624	I-21
D701	G-19	Q625	H-21
D702	C-5	Q626	I-21
D751	H-6	Q651	G-21
D1001	J-26	Q652	F-2
D1002	J-26	Q653	F-21
D1003	J-26	Q661	E-5
D1004	J-25	Q662	E-17
D1005	J-25	Q663	E-17
D1006	H-24	Q701	G-3
		Q702	G-3
IC11	D-9	Q703	G-20
IC31	I-9	Q1001	J-25
IC321	G-9	Q1002	I-25

Note:

- ○— : parts extracted from the component side.
- ● : Through hole.
- ▬ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)

[MAIN BOARD] (SIDE A)

[MAIN BOARD](SIDE B)

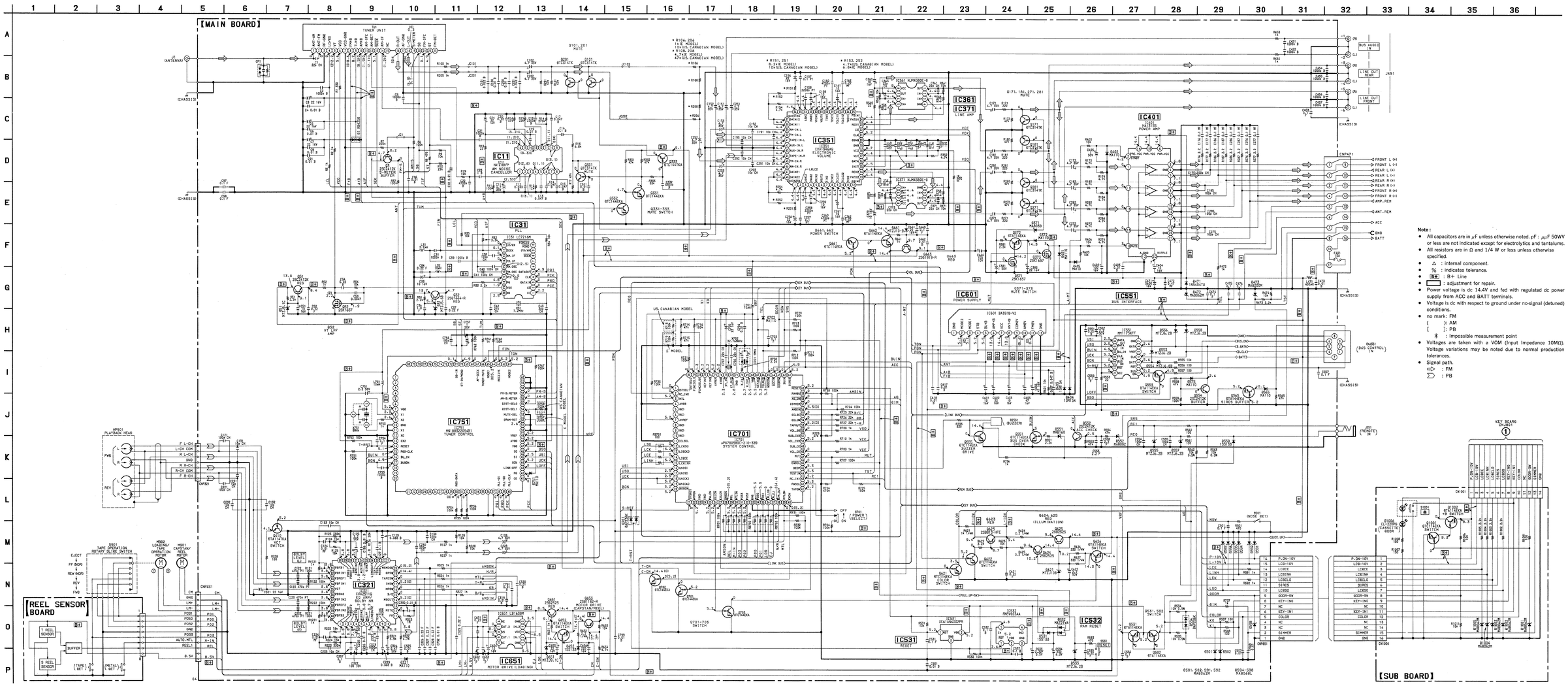
[REEL SENSOR BOARD]

[SUB BOARD](SIDE A)

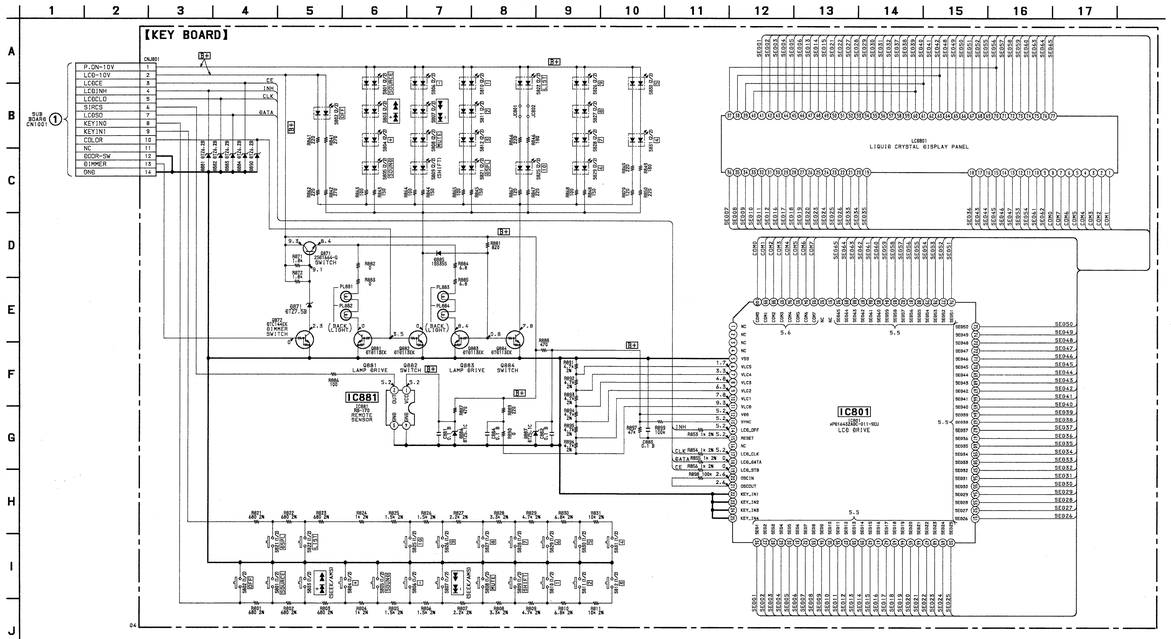
[SUB BOARD](SIDE B)

6-4. SCHEMATIC DIAGRAM—MAIN SECTION— • Refer to page 49 for IC Block Diagrams.

SEE ADDITIONAL INFORMATION



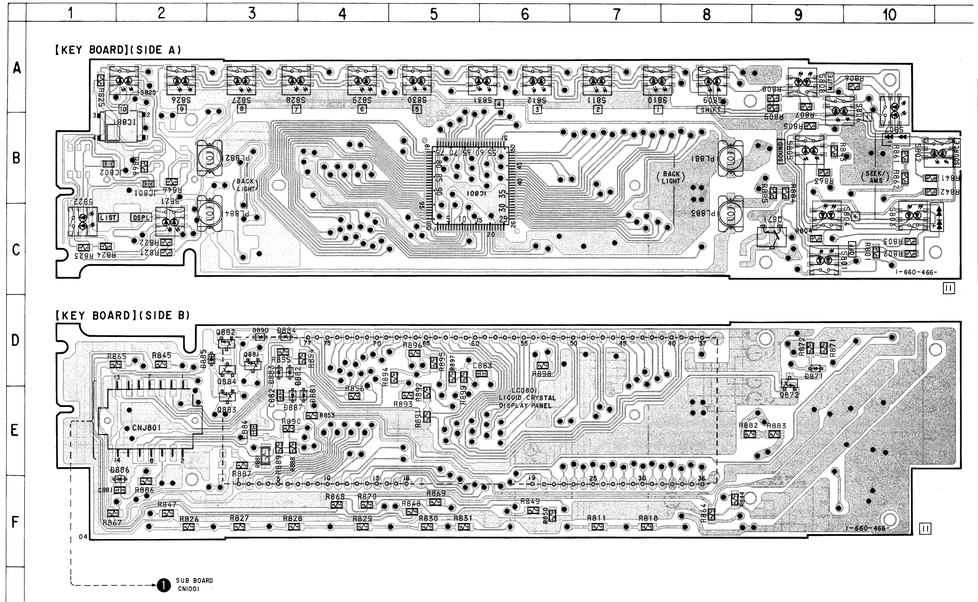
6-5. SCHEMATIC DIAGRAM—PANEL SECTION—



Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- (B+) : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BATT and ACC terminals.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
- no mark: FM
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

6-6. PRINTED WIRING BOARD—PANEL SECTION—



● Semiconductor Location

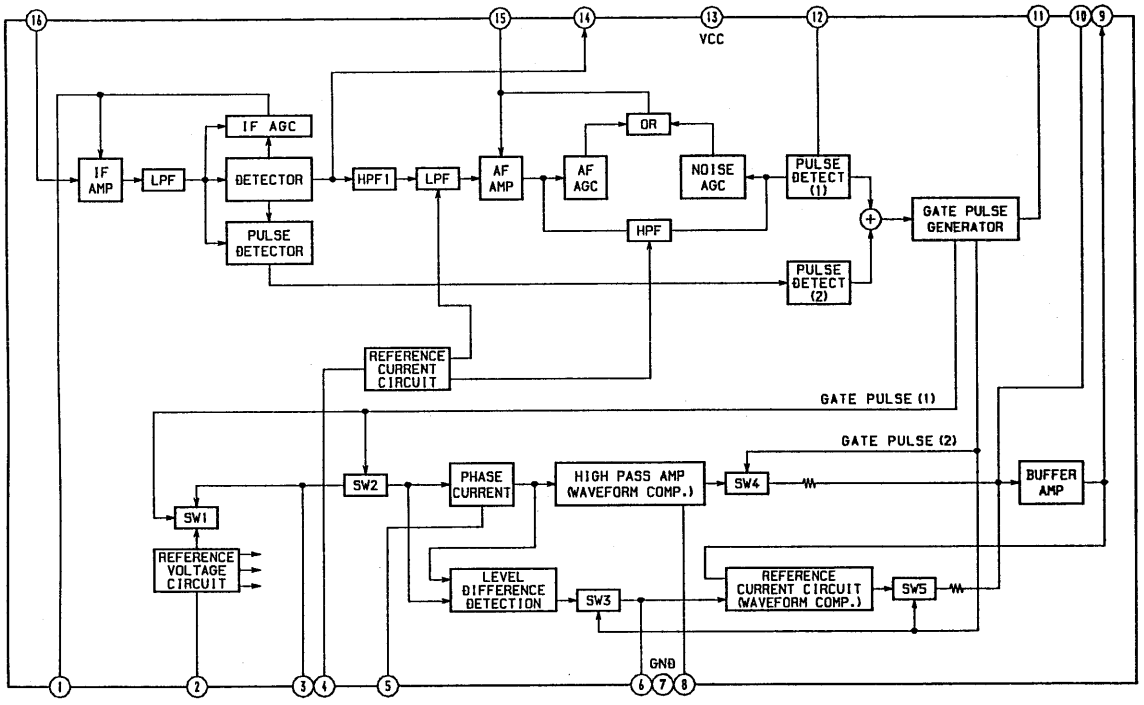
Ref. No.	Location
D871	D-9
D881	E-4
D882	D-3
D883	D-3
D884	D-3
D885	D-3
D886	E-2
D887	E-3
D890	D-3
IC801	B-5
IC881	B-2
Q871	C-9
Q872	D-9
Q881	D-3
Q882	D-3
Q883	D-3
Q884	E-3

Note :

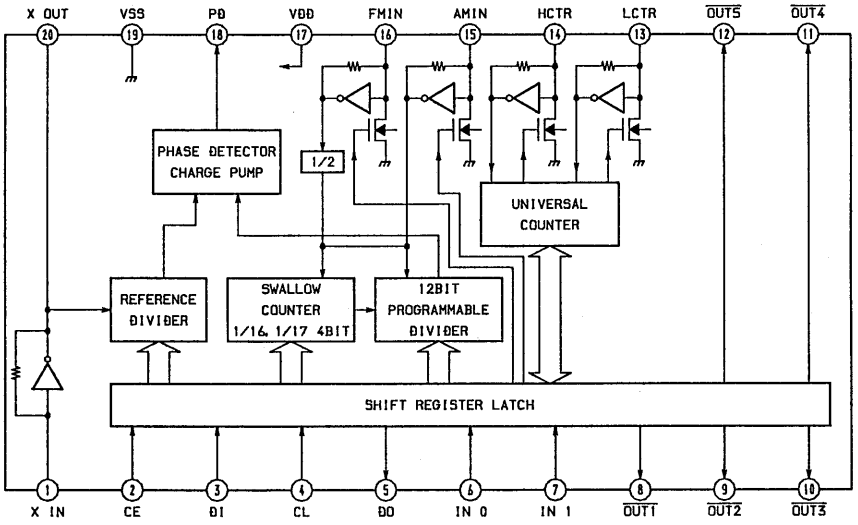
- ● : Through hole.
- ▩ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)

• **IC Block Diagrams**

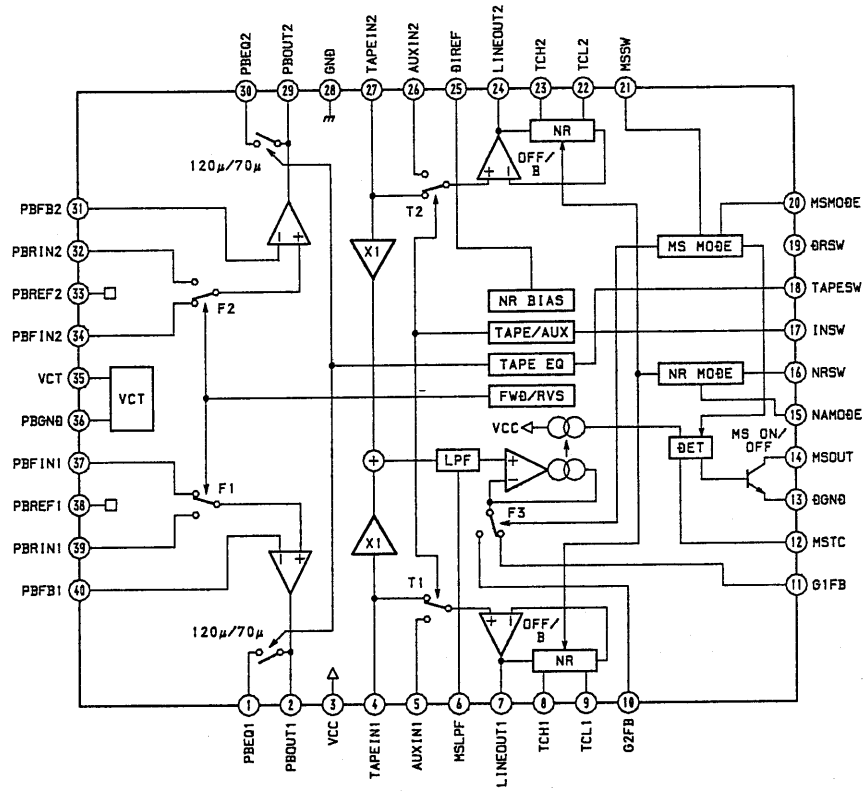
IC11 HA12181FP



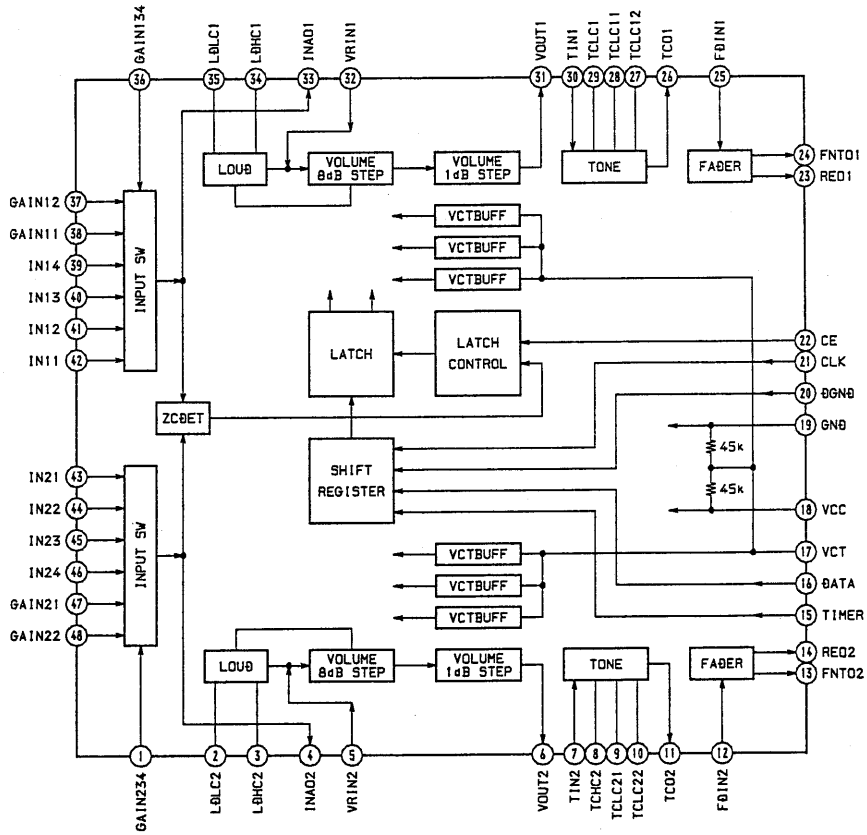
IC31 LC7216M



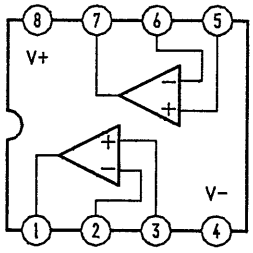
IC321 CXA2511Q



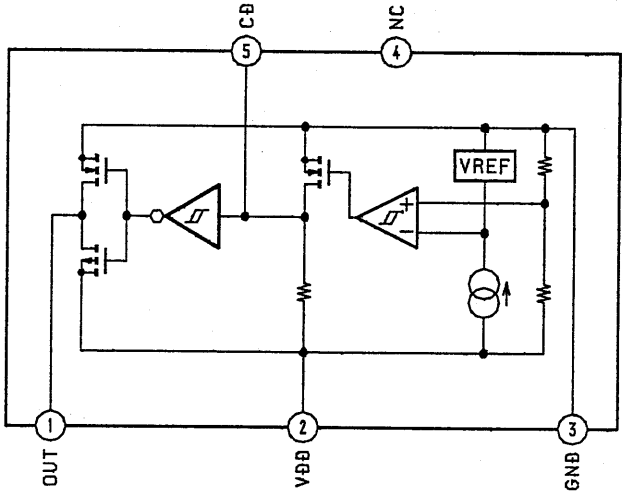
IC351 CXA1946AQ



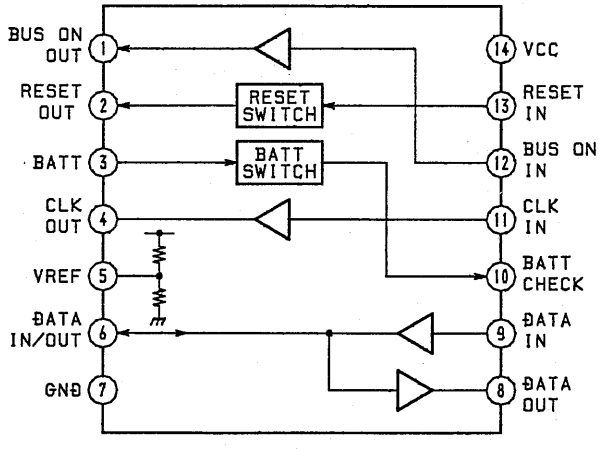
IC361, 371 NJM4580E-D



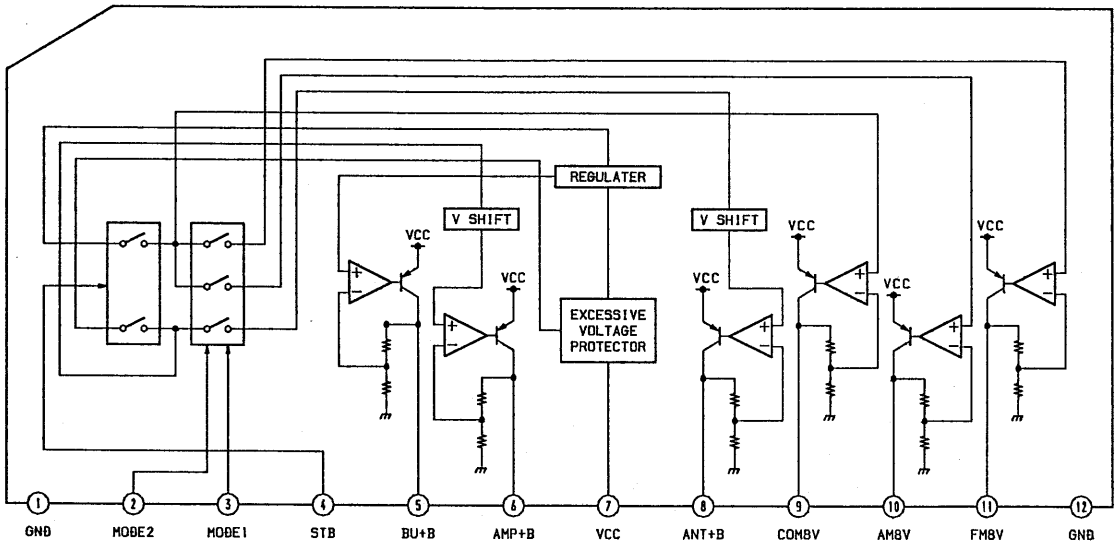
IC532 RN5VD23AA



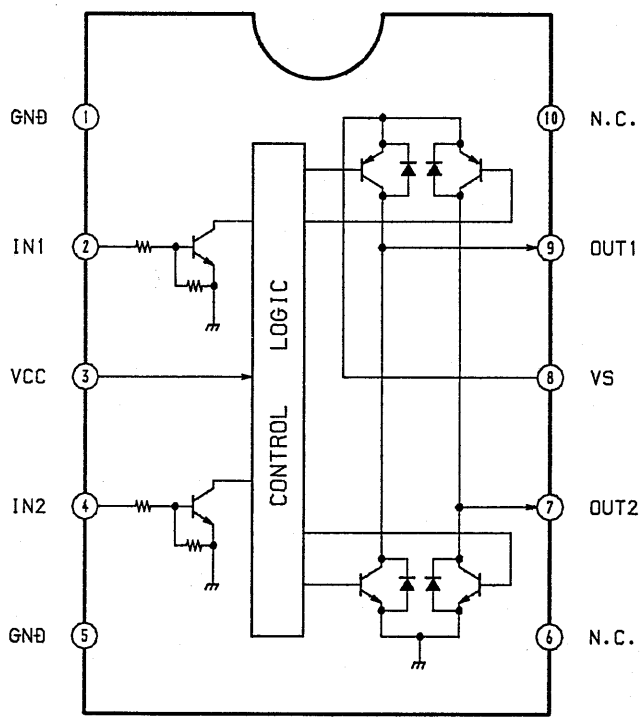
IC551 MM1175XFF



IC601 BA3918-V2



IC651 LB1638M

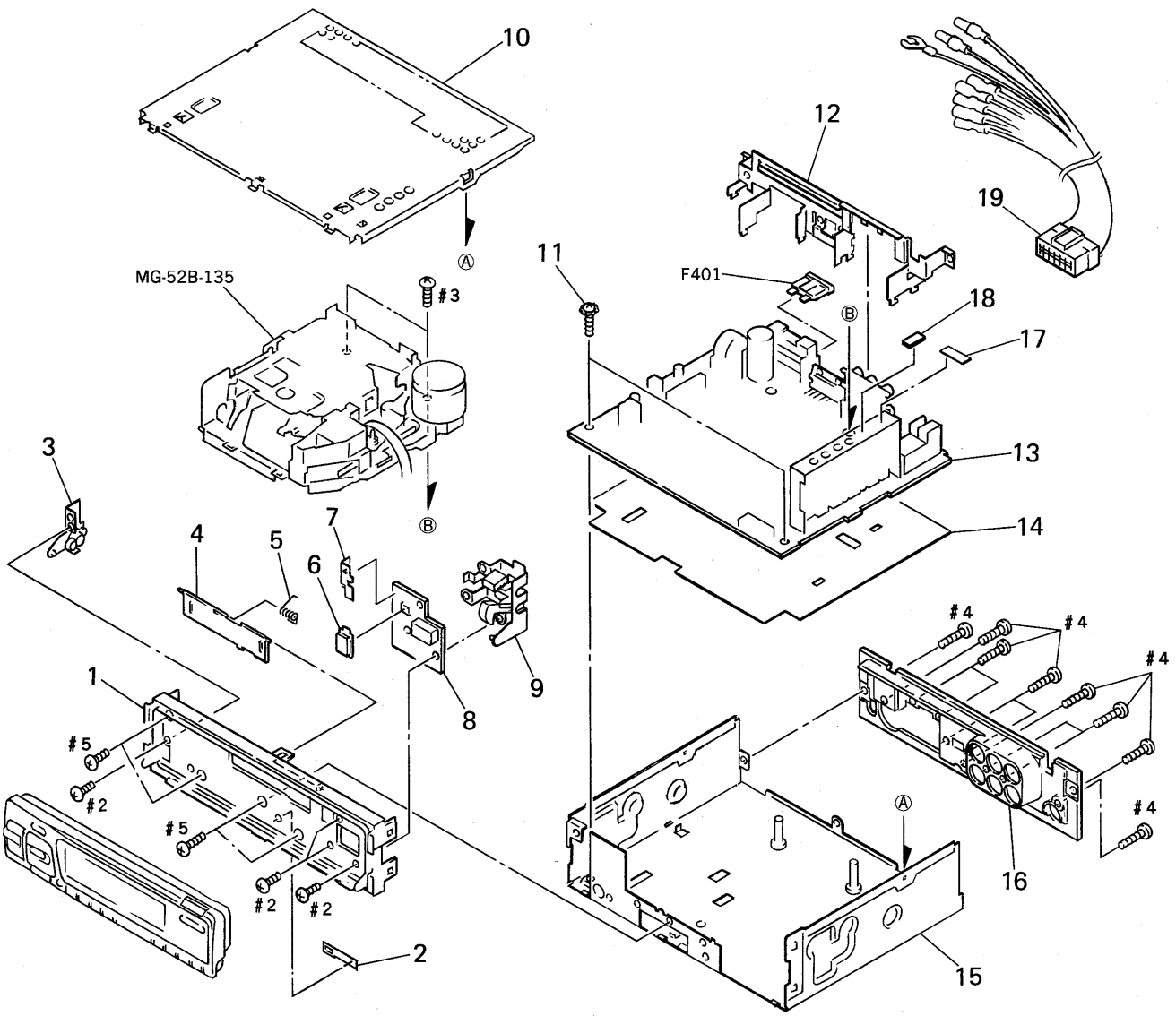


SECTION 7
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

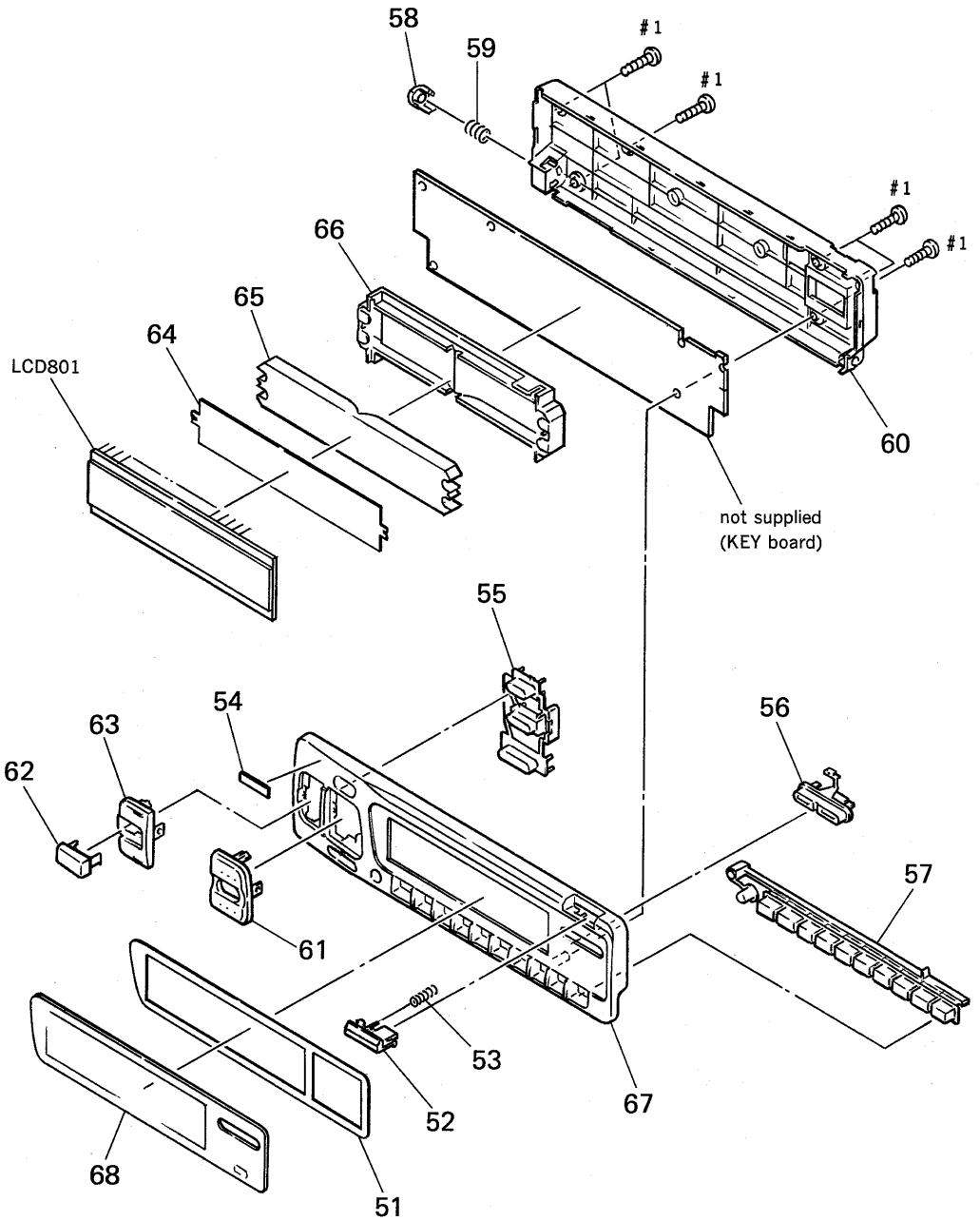
7-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	3-932-208-11	PANEL, SUB	
2	X-3371-545-1	SPRING (SWITCH) ASSY	
3	A-3291-624-A	SHAFT ASSY	
4	3-932-205-01	DOOR, CASSETTE	
5	3-913-076-01	SPRING (C DOOR), TORSION	
6	3-932-223-01	BUTTON (EJECT)	
7	3-932-224-11	PLATE (C DOOR), LIGHT GUIDE	
* 8	1-660-465-11	SUB BOARD	
9	X-3371-543-1	LOCK (SHAFT) ASSY	
* 10	X-3371-546-1	COVER ASSY	
11	3-915-923-01	SCREW, GROUND POINT	

Ref. No.	Part No.	Description	Remark
* 12	3-932-212-01	BRACKET (IC)	
* 13	A-3309-125-A	MAIN BOARD, COMPLETE (US, Canadian)	
* 13	A-3309-208-A	MAIN BOARD, COMPLETE (E)	
* 14	3-932-206-11	INSULATOR	
* 15	X-3371-542-1	CHASSIS ASSY	
* 16	3-932-210-01	HEAT SINK	
* 17	3-355-209-01	PLATE (B), GROUND	
18	9-911-840-XX	CUSHION (U)	
19	1-776-207-11	CORD (WITH CONNECTOR)	
F401	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	

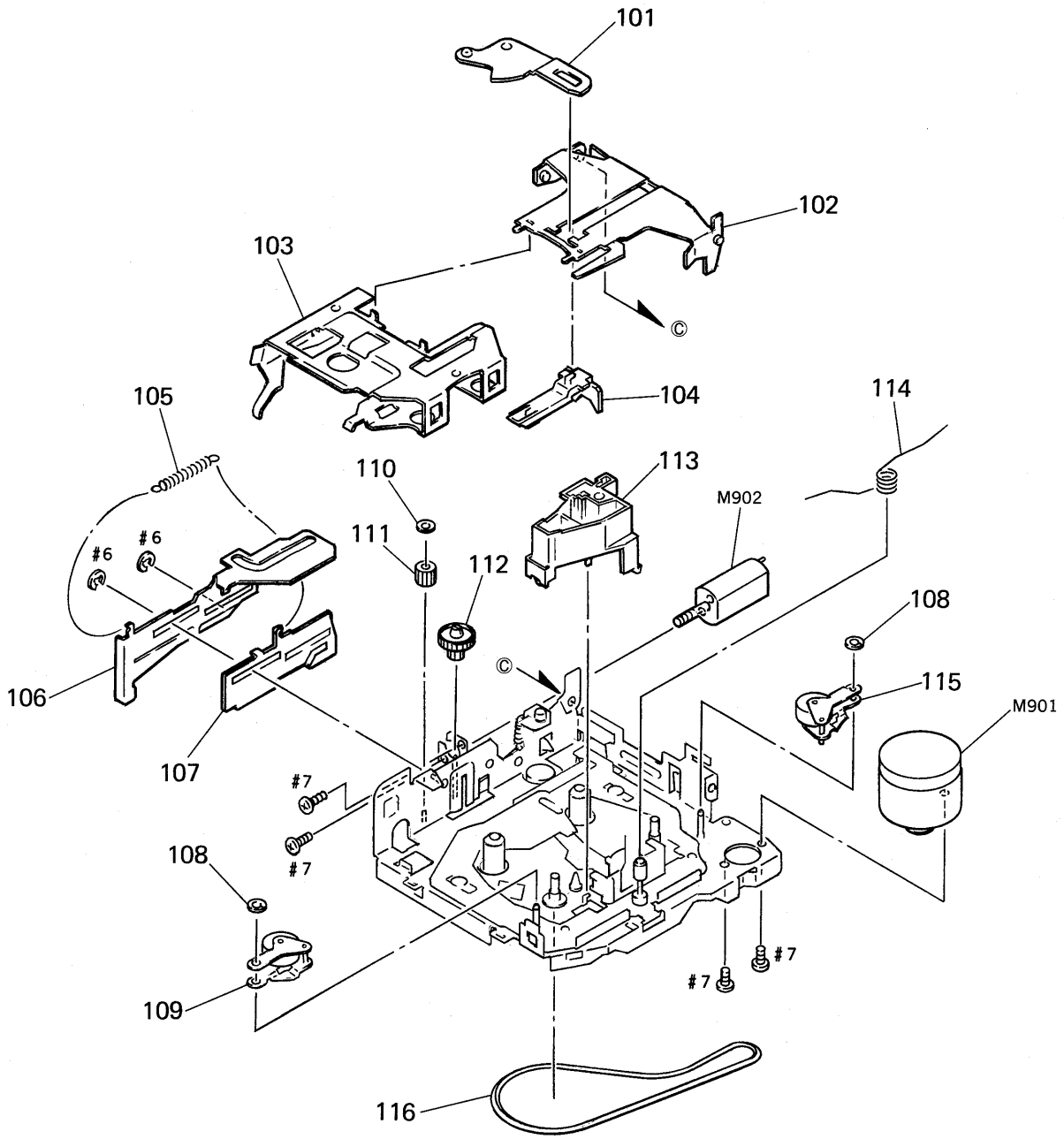
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-934-279-01	SHEET (LCD), ADHESIVE	
52	3-932-219-01	BUTTON (OPEN)	
53	3-932-225-01	SPRING (OPEN)	
54	3-904-194-01	EMBLEM (NO. 2.5), SONY	
55	3-932-216-01	BUTTON (O.S.M)	
56	3-932-218-11	BUTTON (D/L T/A)	
57	3-932-217-01	BUTTON (1-10) (US)	
57	3-932-217-11	BUTTON (1-10) (Canadian, E)	
58	3-932-239-01	BEARING (RELEASE)	
59	3-932-240-01	SPRING (RELEASE)	
60	3-932-207-01	PANEL, FRONT BACK (US)	
60	3-932-207-11	PANEL, FRONT BACK (Canadian, E)	

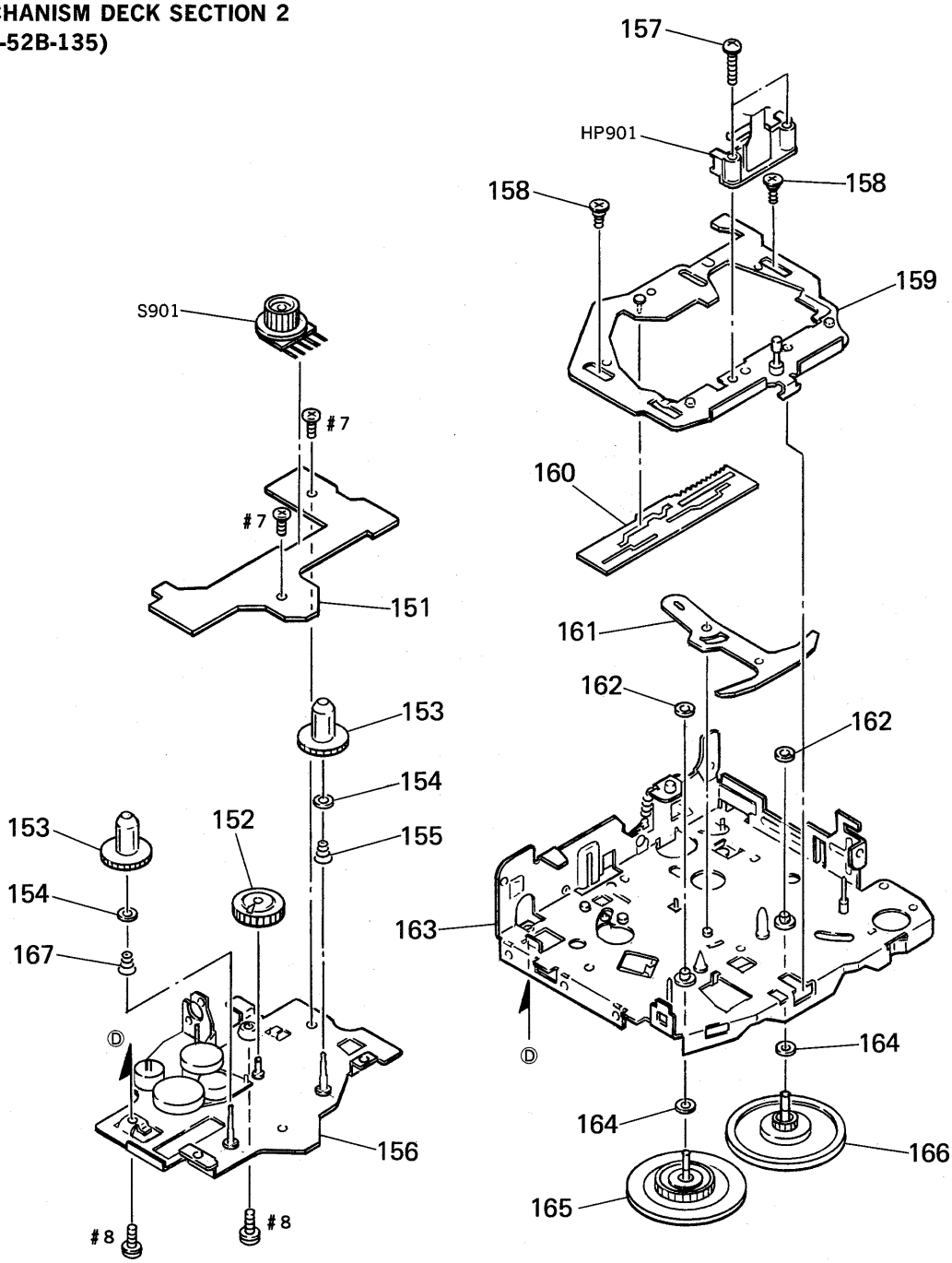
Ref. No.	Part No.	Description	Remark
61	3-932-215-01	BUTTON (+.-)	
62	3-932-214-01	BUTTON (SOURCE)	
63	3-932-213-01	BUTTON (S/A)	
* 64	3-932-221-01	SHEET (REFLECTOR)	
* 65	3-932-220-01	PLATE (LCD), LIGHT GUIDE	
* 66	3-932-222-01	HOLDER (LCD)	
67	3-932-241-11	PANEL, FRONT (Canadian, E)	
67	3-932-241-51	PANEL, FRONT (US)	
68	3-932-242-11	PLATE (LCD), INDICATION (Canadian, E)	
68	3-932-242-51	PALTE (LCD), INDICATION (US)	
LCD801	1-801-192-11	DISPLAY PANEL, LIQUID CRYSTAL	

7-3. MECHANISM DECK SECTION 1 (MG-52B-135)



Ref. No.	Part No.	Description	Remark
* 101	3-933-347-01	ARM (SUCTION)	
102	3-933-340-01	HANGER	
103	3-928-671-01	HOUSING	
104	3-933-346-01	CATCHER	
105	3-933-341-01	SPRING (LEVER LDG), TENSION	
106	3-928-674-01	LEVER (LDG-B)	
* 107	3-928-673-01	LEVER (LDG-A)	
108	3-321-813-01	WASHER, COTTER POLYETHYLENE	
109	X-3370-977-1	LEVER (PINCH R) ASSY	
110	3-341-753-11	WASHER, POLYETHYLENE	
111	3-933-335-01	GEAR (LDG-FT)	
112	3-928-667-01	GEAR (LDG-A)	
113	3-933-344-01	GUIDE (C)	
114	3-928-670-01	SPRING (PINCH PRESS)	
115	X-3370-976-1	LEVER (PINCH F) ASSY	
116	3-928-675-01	BELT (52)	
M901	A-3291-644-A	MOTOR ASSY, MAIN	
M902	A-3291-643-A	MOTOR ASSY, SUB	

7-4. MECHANISM DECK SECTION 2 (MG-52B-135)



Ref. No.	Part No.	Description	Remark
151	1-660-169-11	REEL SENSOR BOARD	
152	3-933-333-01	GEAR (LDG-E)	
153	3-933-345-01	GEAR, REEL	
154	3-701-437-01	POLY-SLIDER (A)	
155	3-933-339-01	SPRING (B-T-F), CONE COIL	
156	X-3371-710-1	CHASSIS (S) ASSY	
157	3-927-100-01	SCREW (+PS 2X10), SPECIAL	
158	3-933-338-01	SCREW (HP), STEP	
* 159	X-3371-712-1	PLATE SUB ASSY, HEAD	
160	3-928-668-01	LEVER (MODE)	

Ref. No.	Part No.	Description	Remark
161	3-928-669-01	LEVER (PINCH SELECTION)	
162	3-364-151-01	WASHER	
* 163	X-3371-705-1	CHASSIS (M) ASSY (B)	
164	3-701-437-21	WASHER	
165	A-3291-646-A	CLUTCH (FR) ASSY	
166	3-930-932-01	FLYWHEEL (F) (SEF)	
167	3-933-337-01	SPRING (B-T-R), CONE COIL	
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)	

SECTION 8
ELECTRICAL PARTS LIST

KEY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description	Remark
		KEY BOARD	
		*********	
*	3-932-220-01	PLATE (LCD), LIGHT GUIDE	
*	3-932-221-01	SHEET (REFLECTOR)	
*	3-932-222-01	HOLDER (LCD)	
		< CAPACITOR >	
C881-884			
	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CNJ801	1-774-945-11	PLUG, CONNECTOR 14P	
		< DIODE >	
D871	8-719-422-76	DIODE MA8075-M	
D881	8-719-422-64	DIODE MA8062M	
D882	8-719-422-64	DIODE MA8062M	
D883	8-719-422-64	DIODE MA8062M	
D884	8-719-422-64	DIODE MA8062M	
D885	8-719-404-46	DIODE MA110	
D886	8-719-422-43	DIODE MA8051-H	
D887	8-719-422-43	DIODE MA8051-H	
D890	8-719-422-64	DIODE MA8062M	
		< IC >	
IC801	8-759-331-68	IC uPD16432AGC-011-9EU	
IC881	8-749-012-25	IC RS-170-TU	
		< JUMPER RESISTOR >	
JC801	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC802	1-216-295-00	CONDUCTOR, CHIP (2012)	
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-801-192-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL881	1-517-533-11	LAMP, PILOT	
PL882	1-517-533-11	LAMP, PILOT	
PL883	1-517-533-21	LAMP, PILOT	
PL884	1-517-533-21	LAMP, PILOT	
		< TRANSISTOR >	
Q871	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q872	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q881	8-729-904-66	TRANSISTOR DTD113EK	
Q882	8-729-904-66	TRANSISTOR DTD113EK	
Q883	8-729-904-66	TRANSISTOR DTD113EK	
Q884	8-729-904-66	TRANSISTOR DTD113EK	
		< RESISTOR >	
R801-803			
	1-216-647-11	METAL CHIP 680 0.5% 1/10W	
R804	1-208-437-41	METAL GLAZE 1K 2% 1/10W	
R805	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R806	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R807	1-208-445-41	METAL GLAZE 2.2K 2% 1/10W	
R808	1-208-449-41	METAL GLAZE 3.3K 2% 1/10W	
R809	1-208-453-41	METAL GLAZE 4.7K 2% 1/10W	
R810	1-216-671-11	METAL CHIP 6.8K 0.5% 1/10W	
R811	1-208-462-41	METAL GLAZE 10K 2% 1/10W	
R821-823			
	1-216-647-11	METAL CHIP 680 0.5% 1/10W	
R824	1-208-437-41	METAL GLAZE 1K 2% 1/10W	
R825	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R826	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R827	1-208-445-41	METAL GLAZE 2.2K 2% 1/10W	
R828	1-208-449-41	METAL GLAZE 3.3K 2% 1/10W	
R829	1-208-453-41	METAL GLAZE 4.7K 2% 1/10W	
R830	1-216-671-11	METAL CHIP 6.8K 0.5% 1/10W	
R831	1-208-462-41	METAL GLAZE 10K 2% 1/10W	
R841	1-216-035-00	METAL CHIP 270 5% 1/10W	
R842	1-216-035-00	METAL CHIP 270 5% 1/10W	
R843	1-216-029-00	METAL CHIP 150 5% 1/10W	
R844	1-216-029-00	METAL CHIP 150 5% 1/10W	
R845	1-216-029-00	METAL CHIP 150 5% 1/10W	
R846	1-216-031-00	METAL CHIP 180 5% 1/10W	
R847	1-216-033-00	METAL CHIP 220 5% 1/10W	

KEY MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
R848	1-216-029-00	METAL CHIP	150	5%	1/10W
R849	1-216-031-00	METAL CHIP	180	5%	1/10W
R850	1-216-033-00	METAL CHIP	220	5%	1/10W
R853-856					
	1-208-437-41	METAL CHIP	1K	2%	1/10W
R861	1-216-033-00	METAL CHIP	220	5%	1/10W
R862	1-216-033-00	METAL CHIP	220	5%	1/10W
R863-865					
	1-216-025-00	METAL CHIP	100	5%	1/10W
R866	1-216-033-00	METAL CHIP	220	5%	1/10W
R867	1-216-027-00	METAL CHIP	120	5%	1/10W
R868	1-216-025-00	METAL CHIP	100	5%	1/10W
R869	1-216-033-00	METAL CHIP	220	5%	1/10W
R870	1-216-027-00	METAL CHIP	120	5%	1/10W
R871	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R872	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R881	1-216-196-00	METAL GLAZE	820	5%	1/8W
R882	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R883	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R884	1-216-311-00	METAL CHIP	6.8	5%	1/10W
R885	1-216-311-00	METAL CHIP	6.8	5%	1/10W
R886	1-216-025-00	METAL CHIP	100	5%	1/10W
R887	1-216-041-00	METAL CHIP	470	5%	1/10W
R888	1-216-041-00	METAL CHIP	470	5%	1/10W
R889	1-216-033-00	METAL CHIP	220	5%	1/10W
R890	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R891-896					
	1-216-453-41	METAL CHIP	4.7K	2%	1/10W
R897	1-216-089-00	METAL CHIP	47K	5%	1/10W
R898	1-216-097-11	METAL CHIP	100K	5%	1/10W
R899	1-216-097-11	METAL CHIP	100K	5%	1/10W

< SWITCH >

S801	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SOURCE)
S802	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(OFF)
S803	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (+ ⏭ ⏩ (SEEK/AMS))	
S804	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(+)
S805	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SOUND)
S806	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(-)
S807	1-762-620-11	SWITCH, KEY BOARD (WITH LED) (- ⏮ ⏪ (SEEK/AMS))	
S808	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(MUTE)
S809	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(SHIFT)
S810	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(1)
S811	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(2)
S812	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(3)
S821	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(DSPL)
S822	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(LIST)
S825	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(10)
S826	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(9)
S827	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(8)
S828	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(7)
S829	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(6)
S830	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(5)
S831	1-762-620-11	SWITCH, KEY BOARD (WITH LED)	(4)

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*	A-3309-125-A	MAIN BOARD, COMPLETE (US, Canadian)	
*	A-3309-208-A	MAIN BOARD, COMPLETE (E)	
		**********	
*	3-932-212-01	BRACKET (IC)	

< BUZZER >

BZ551	1-504-920-11	BUZZER	

< CAPACITOR >

C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C3	1-124-234-00	ELECT	22uF	20%	16V
C4	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C5	1-124-234-00	ELECT	22uF	20%	16V
C6	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C7	1-124-234-00	ELECT	22uF	20%	16V
C8	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C9	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C11	1-126-163-11	ELECT	4.7uF	20%	50V
C12	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C13-15					
	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C16	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C17	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C18	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C19	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C20	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C21	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C23	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C24	1-124-234-00	ELECT	22uF	20%	16V
C31	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-126-157-11	ELECT	10uF	20%	16V
C34	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C36	1-164-346-11	CERAMIC CHIP	1uF		16V
C37	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C39	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C40	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
C41	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C42	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C43	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C51	1-126-157-11	ELECT	10uF	20%	16V
C52	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C53	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C54	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C96	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C97	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C98	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C100	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C101	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C102	1-126-163-11	ELECT	4.7uF	20%	50V
C121	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C122	1-130-469-00	MYLAR	680PF	5%	50V
C123	1-130-469-00	MYLAR	680PF	5%	50V
C124	1-136-153-00	FILM	0.01uF	5%	50V
C125	1-126-161-11	ELECT	2.2uF	20%	50V
C126	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C127	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C128	1-104-945-11	ELECT	4.7uF	20%	35V
C129	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C130	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C131-133					
	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C151	1-104-945-11	ELECT	4.7uF	20%	35V
C152	1-126-163-11	ELECT	4.7uF	20%	50V
C153	1-126-163-11	ELECT	4.7uF	20%	50V
C156	1-104-952-11	ELECT	22uF	20%	16V
C157	1-136-165-00	FILM	0.1uF	5%	50V
C158	1-104-543-11	FILM CHIP	0.0022uF	5%	50V
C159	1-104-951-11	ELECT	10uF	20%	16V
C160	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C161	1-104-951-11	ELECT	10uF	20%	16V
C162	1-136-169-00	FILM	0.22uF	5%	50V
C171	1-104-945-11	ELECT	4.7uF	20%	35V
C172	1-104-945-11	ELECT	4.7uF	20%	35V
C175	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C176	1-136-165-00	FILM	0.1uF	5%	50V
C177	1-136-165-00	FILM	0.1uF	5%	50V
C181	1-104-945-11	ELECT	4.7uF	20%	35V
C182	1-104-945-11	ELECT	4.7uF	20%	35V
C185	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C186	1-136-165-00	FILM	0.1uF	5%	50V
C187	1-136-165-00	FILM	0.1uF	5%	50V
C191-193					
	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C200	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C201	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C202	1-126-163-11	ELECT	4.7uF	20%	50V
C221	1-164-251-11	CERAMIC CHIP	100PF	5%	50V
C222	1-130-469-00	MYLAR	680PF	5%	50V
C223	1-130-469-00	MYLAR	680PF	5%	50V
C224	1-136-153-00	FILM	0.01uF	5%	50V
C225	1-126-161-11	ELECT	2.2uF	20%	50V
C226	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C227	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C228	1-104-945-11	ELECT	4.7uF	20%	35V
C229	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C230	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C231-233					
	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C251	1-104-945-11	ELECT	4.7uF	20%	35V
C252	1-126-163-11	ELECT	4.7uF	20%	50V
C253	1-126-163-11	ELECT	4.7uF	20%	50V
C256	1-104-952-11	ELECT	22uF	20%	16V
C257	1-136-165-00	FILM	0.1uF	5%	50V
C258	1-104-543-11	FILM CHIP	0.0022uF	5%	50V
C259	1-104-951-11	ELECT	10uF	20%	16V
C260	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C261	1-104-951-11	ELECT	10uF	20%	16V
C262	1-136-169-00	FILM	0.22uF	5%	50V
C271	1-104-945-11	ELECT	4.7uF	20%	35V
C272	1-104-945-11	ELECT	4.7uF	20%	35V
C275	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C276	1-136-165-00	FILM	0.1uF	5%	50V
C277	1-136-165-00	FILM	0.1uF	5%	50V
C281	1-104-945-11	ELECT	4.7uF	20%	35V
C282	1-104-945-11	ELECT	4.7uF	20%	35V
C285	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C286	1-136-165-00	FILM	0.1uF	5%	50V
C287	1-136-165-00	FILM	0.1uF	5%	50V
C291-293					
	1-162-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C301	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C319	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C321	1-104-952-11	ELECT	22uF	20%	16V
C322	1-126-277-11	ELECT	100uF	20%	10V
C323	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C324	1-124-465-00	ELECT	0.47uF	20%	50V
C325	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C326-329					
	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C330	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C331	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C332	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
C351	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C352	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C353	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C354	1-104-952-11	ELECT	22uF	20%	16V
C355	1-126-277-11	ELECT	100uF	20%	10V
C360	1-104-951-11	ELECT	10uF	20%	16V
C361	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C363	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C370	1-104-951-11	ELECT	10uF	20%	16V
C371	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C373	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C381	1-126-160-11	ELECT	1uF	20%	50V
C382	1-124-234-00	ELECT	22uF	20%	16V
C402	1-126-157-11	ELECT	10uF	20%	16V
C403	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C404	1-104-951-11	ELECT	10uF	20%	16V
C405	1-126-157-11	ELECT	10uF	20%	16V
C451	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C453	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C454-457					
	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C471	1-111-233-11	ELECT	5600uF	20%	16V
C472	1-136-173-00	FILM	0.47uF	5%	50V
C473	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C474	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C475	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C476	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C507	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C508	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C531	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C533	1-125-705-11	CAPACITOR	0.22F		5.5V
C534	1-126-924-11	ELECT	330uF	20%	6.3V
C535	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C536	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C537	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C551	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C552	1-124-257-00	ELECT	2.2uF	20%	50V
C553	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C554	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C555	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C557	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C558	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C559	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-124-234-00	ELECT	22uF	20%	16V
C603	1-126-157-11	ELECT	10uF	20%	16V

Ref. No.	Part No.	Description			Remark
C605	1-124-589-11	ELECT	47uF	20%	16V
C606	1-124-589-11	ELECT	47uF	20%	16V
C607	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C617	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C618	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C621	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C622	1-124-257-00	ELECT	2.2uF	20%	50V
C651	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C652	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C653	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C654	1-126-157-11	ELECT	10uF	20%	16V
C655	1-124-234-00	ELECT	22uF	20%	16V
C656	1-126-934-11	ELECT	220uF	20%	16V
C661	1-104-952-11	ELECT	22uF	20%	16V
C662	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C663	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C664	1-126-277-11	ELECT	100uF	20%	10V
C703	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C704	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C705	1-124-234-00	ELECT	22uF	20%	16V
C706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C707	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C751	1-124-257-00	ELECT	2.2uF	20%	50V
C754	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C755	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C756	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C757	1-126-160-11	ELECT	1uF	20%	50V
C791	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C792	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C799	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C901	1-164-232-11	CERAMIC CHIP	0.01uF		50V

< CONNECTOR >

CNJ551	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
CNP321	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P	
* CNP331	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P	
CNP471	1-774-701-11	PIN, CONNECTOR 16P	
CNP851	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P	

< DISCHARGE GAP >

CP1	1-519-504-11	GAP, DISCHARGE

< DIODE >

D1	8-719-991-75	DIODE	RB425D
D31	8-719-109-88	DIODE	RD5.6ES-B1
D51	8-719-110-14	DIODE	RD9.1ES-B3
D321	8-719-404-46	DIODE	MA110
D371	8-719-422-12	DIODE	MA8039

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description	Remark
D372	8-719-404-46	DIODE MA110	
D401	8-719-404-46	DIODE MA110	
D402	8-719-404-46	DIODE MA110	
D403	8-719-974-59	DIODE 1SR139-100	
D404	8-719-974-59	DIODE 1SR139-100	
D405	8-719-404-46	DIODE MA110	
D471	8-719-049-38	DIODE 1N5404TU	
D472	8-719-422-64	DIODE MA8062-M	
D473	8-719-017-98	DIODE MA8200-TX	
D501	8-719-422-64	DIODE MA8062-M	
D502	8-719-422-64	DIODE MA8062-M	
D531	8-719-911-19	DIODE 1SS119-25	
D532	8-719-041-79	DIODE MA721WA-TX	
D533	8-719-109-93	DIODE RD6.2ESB2	
D534	8-719-979-34	DIODE DAP236K-T146	
D551	8-719-057-80	DIODE MA8160-M-TX	
D552	8-719-420-14	DIODE MA8082-M	
D553	8-719-109-93	DIODE RD6.2ESB2	
D554	8-719-109-97	DIODE RD6.8ES-B2	
D555	8-719-109-93	DIODE RD6.2ESB2	
D556	8-719-109-93	DIODE RD6.2ESB2	
D557	8-719-109-93	DIODE RD6.2ESB2	
D558	8-719-109-93	DIODE RD6.2ESB2	
D559	8-719-911-19	DIODE 1SS119-25	
D565	8-719-404-46	DIODE MA110	
D575	8-719-404-46	DIODE MA110	
D591	8-719-057-80	DIODE MA8160-M-TX	
D592	8-719-057-80	DIODE MA8160-M-TX	
D594	8-719-017-62	DIODE MA8068-L-TX	
D595	8-719-017-62	DIODE MA8068-L-TX	
D596	8-719-017-62	DIODE MA8068-L-TX	
D597	8-719-017-62	DIODE MA8068-L-TX	
D598	8-719-017-62	DIODE MA8068-L-TX	
D621	8-719-923-74	DIODE MTZJ-T-77-11A	
D651	8-719-110-14	DIODE RD9.1ES-B3	
D652	8-719-911-19	DIODE 1SS119-25	
D661	8-719-110-17	DIODE RD10ESB2	
D701	8-719-979-34	DIODE DAP236K-T146	
D702	8-719-404-46	DIODE MA110	
D751	8-719-404-46	DIODE MA110	
		< FUSE >	
F401	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
		< IC >	
IC11	8-759-367-11	IC HA12181FP-EL	
IC31	8-759-823-81	IC LC7216M	
IC321	8-752-075-59	IC CXA2511Q-T4	
IC351	8-752-075-48	IC CXA1946AQ-T6	
IC361	8-759-711-85	IC NJM4580E-D	
IC371	8-759-711-85	IC NJM4580E-D	
IC401	8-759-369-41	IC HA13155	
IC531	8-759-363-81	IC XC61AN4002PR	
IC532	8-759-344-91	IC RN5VD23AA-TL	
IC551	8-759-096-16	IC MM1175XFF	
IC601	8-759-347-49	IC BA3918-V2	
IC651	8-759-823-87	IC LB1638M	
IC701	8-759-396-29	IC uPD78058GC-210-3B9	
IC751	8-759-381-32	IC MN1883220S4B1	
		< JACK >	
J1	1-764-808-11	JACK (ANTENNA)	
J451	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN/LINE OUT FRONT/REAR)	
J551	1-566-822-41	JACK (REMOTE IN)	
		< JUMPER RESISTOR >	
JC1	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC101	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC102	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC201	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC202	1-216-295-00	CONDUCTOR, CHIP (2012)	
		< COIL >	
L31	1-410-501-11	INDUCTOR 2.2uH	
L32	1-410-509-11	INDUCTOR 10uH	
L471	1-411-669-11	COIL, CHOKE	
L701	1-410-509-11	INDUCTOR 10uH	
L751	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q32	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q51	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q52	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q171	8-729-920-21	TRANSISTOR DTC314TKH04	
Q181	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q271	8-729-920-21	TRANSISTOR DTC314TKH04	
Q281	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-920-21	TRANSISTOR DTC314TKH04	
Q331	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q332	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q333	8-729-027-60	TRANSISTOR DTC144TKA-T146	
Q371	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q372	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q373	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q410	8-729-027-24	TRANSISTOR DTA114TKA-T146	

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description		Remark
Q531	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q532	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q551	8-729-900-53	TRANSISTOR	DTC114EK	
Q552	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q553	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q554	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q555	8-729-900-53	TRANSISTOR	DTC114EK	
Q565	8-729-027-38	TRANSISTOR	DTA144EKA-T146	
Q621	8-729-900-53	TRANSISTOR	DTC114EK	
Q622	8-729-900-53	TRANSISTOR	DTC114EK	
Q623	8-729-030-51	TRANSISTOR	2SA1515S-R-TP	
Q624	8-729-030-18	TRANSISTOR	2SD2525	
Q625	8-729-030-18	TRANSISTOR	2SD2525	
Q626	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q651	8-729-030-18	TRANSISTOR	2SD2525	
Q652	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q653	8-729-106-60	TRANSISTOR	2SB1115A	
Q661	8-729-900-53	TRANSISTOR	DTC114EK	
Q662	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q663	8-729-930-77	TRANSISTOR	2SD1919TL2-R	
Q701	8-729-027-59	TRANSISTOR	DTC144EKA-T146	
Q702	8-729-027-59	TRANSISTOR	DTC144EKA-T146	
Q703	8-729-027-59	TRANSISTOR	DTC144EKA-T146	

< RESISTOR >

R1	1-216-037-00	METAL CHIP	330	5%	1/10W
R2	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R3	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R6	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R7	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R8	1-216-041-00	METAL CHIP	470	5%	1/10W
R9	1-216-073-00	METAL CHIP	10K	5%	1/10W
R10	1-216-081-00	METAL CHIP	22K	5%	1/10W
R11	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R12	1-216-075-00	METAL CHIP	12K	5%	1/10W
R13	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R14	1-216-107-00	METAL CHIP	270K	5%	1/10W
R15	1-216-081-00	METAL CHIP	22K	5%	1/10W
R16	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R17	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R18	1-216-009-00	METAL CHIP	22	5%	1/10W
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W
R31	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R32	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R33	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R34	1-216-073-00	METAL CHIP	10K	5%	1/10W
R35	1-216-073-00	METAL CHIP	10K	5%	1/10W
R37	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R51	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R52	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R100	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R101	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R106	1-216-049-11	METAL CHIP	1K	5%	1/10W (E)
R106	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, Canadian)
R108	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E)
R108	1-216-089-00	METAL GLAZE	47K	5%	1/10W (US, Canadian)
R121	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R122	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R123	1-216-109-00	METAL CHIP	330K	5%	1/10W
R124	1-216-077-00	METAL CHIP	15K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R126	1-216-080-00	METAL CHIP	20K	5%	1/10W
R127	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R128	1-216-073-00	METAL CHIP	10K	5%	1/10W
R151	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (E)
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, Canadian)
R152	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US, Canadian)
R152	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (E)
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R171	1-216-033-00	METAL CHIP	220	5%	1/10W
R172	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R173	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R174	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R176	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R177	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R181	1-216-033-00	METAL CHIP	220	5%	1/10W
R182	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R183	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R184	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R186	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R187	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R200	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R206	1-216-049-11	METAL CHIP	1K	5%	1/10W (E)
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, Canadian)
R208	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E)
R208	1-216-089-00	METAL GLAZE	47K	5%	1/10W (US, Canadian)
R221	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R222	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R223	1-216-109-00	METAL CHIP	330K	5%	1/10W
R224	1-216-077-00	METAL CHIP	15K	5%	1/10W
R225	1-216-079-00	METAL CHIP	18K	5%	1/10W

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
R227	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R251	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (E)
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W (US, Canadian)
R252	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US, Canadian)
R252	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (E)
R254	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R271	1-216-033-00	METAL CHIP	220	5%	1/10W
R272	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R273	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R274	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R276	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R277	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R281	1-216-033-00	METAL CHIP	220	5%	1/10W
R282	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R283	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R284	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R286	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R287	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R321	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R322	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R323	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R324-327	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R328	1-216-025-00	METAL GLAZE	100	5%	1/10W
R331	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R332	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R333	1-216-085-00	METAL CHIP	33K	5%	1/10W
R351	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R352	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R356	1-216-009-00	METAL CHIP	22	5%	1/10W
R361	1-216-073-00	METAL CHIP	10K	5%	1/10W
R362	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R363	1-216-073-00	METAL CHIP	10K	5%	1/10W
R364	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R365	1-216-009-00	METAL CHIP	22	5%	1/10W
R371	1-216-073-00	METAL CHIP	10K	5%	1/10W
R372	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R373	1-216-073-00	METAL CHIP	10K	5%	1/10W
R374	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R375	1-216-009-00	METAL CHIP	22	5%	1/10W
R381	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R403	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-073-00	METAL CHIP	10K	5%	1/10W
R406	1-216-073-00	METAL CHIP	10K	5%	1/10W
R453	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R454	1-216-049-11	METAL GLAZE	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R472	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R473	1-249-421-11	CARBON	2.2K	5%	1/4W
R474	1-216-073-00	METAL CHIP	10K	5%	1/10W
R501	1-216-041-00	METAL CHIP	470	5%	1/10W
R507	1-216-025-00	METAL GLAZE	100	5%	1/10W
R508	1-216-025-00	METAL GLAZE	100	5%	1/10W
R531	1-216-073-00	METAL CHIP	10K	5%	1/10W
R532	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R533	1-216-041-00	METAL CHIP	470	5%	1/10W
R534	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R535	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R551	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R552	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R553	1-216-009-00	METAL CHIP	22	5%	1/10W
R554	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R555	1-216-073-00	METAL CHIP	10K	5%	1/10W
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W
R557	1-216-025-00	METAL GLAZE	100	5%	1/10W
R558	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R559	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R560	1-216-025-00	METAL GLAZE	100	5%	1/10W
R561	1-216-025-00	METAL GLAZE	100	5%	1/10W
R562	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R563	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R565	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R591	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R592	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W
R621	1-249-417-11	CARBON	1K	5%	1/4W
R622	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R623	1-216-073-00	METAL CHIP	10K	5%	1/10W
R624	1-249-385-11	CARBON	2.2	5%	1/6W
R625	1-249-385-11	CARBON	2.2	5%	1/6W
R626	1-249-411-11	CARBON	330	5%	1/4W
R627	1-249-411-11	CARBON	330	5%	1/4W
R651	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R652	1-249-385-11	CARBON	2.2	5%	1/6W
R653	1-216-073-00	METAL CHIP	10K	5%	1/10W
R654	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R661	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R701	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R704	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R705	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R706	1-216-113-00	METAL CHIP	470K	5%	1/10W
R707	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R708-710	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R711-713	1-216-097-00	METAL GLAZE	100K	5%	1/10W

MAIN **SUB**

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
R714	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R715	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R716	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R718	1-216-097-00	METAL GLAZE	100K	5%	1/10W (US, Canadian)
R719	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R721	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R724	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R725-727	1-216-081-00	METAL CHIP	22K	5%	1/10W
R728	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R729	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R730	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R731	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R732	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R733	1-216-037-00	METAL CHIP	330	5%	1/10W
R734	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R735	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R737	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R738	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R751	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R754-757	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R758	1-216-097-00	METAL GLAZE	100K	5%	1/10W (US, Canadian)
R760	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R762	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R767	1-216-097-00	METAL GLAZE	100K	5%	1/10W

< NETWORK RESISTOR >

RB701	1-239-514-11	RESISTOR, NETWORK (1608)
RB702	1-239-517-11	RESISTOR, NETWORK (1608)
RB703	1-239-517-11	RESISTOR, NETWORK (1608)

< VARIABLE RESISTOR >

RV121	1-238-597-11	RES, ADJ, CARBON 1K
RV221	1-238-597-11	RES, ADJ, CARBON 1K

< SWITCH >

S501	1-762-108-11	SWITCH, PUSH (1 KEY) (NOSE DET)
S531	1-692-431-21	SWITCH, TACTILE (RESET)
S701	1-571-478-11	SWITCH, SLIDE (POWER SELECT)

< VIBRATOR >

X31	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)
X701	1-579-233-11	VIBRATOR, CERAMIC (5MHz)
X702	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)
X751	1-579-125-11	VIBRATOR, CERAMIC (8MHz)

****

*	1-660-465-11	SUB BOARD

****

< CONNECTOR >

CN1000	1-774-276-21	SOCKET, CONNECTOR 16P
CN1001	1-774-944-11	SOCKET, CONNECTOR 14P

< DIODE >

D1001	8-719-422-64	DIODE MA8062-M
D1002	8-719-422-64	DIODE MA8062-M
D1003	8-719-422-64	DIODE MA8062-M
D1004	8-719-422-64	DIODE MA8062-M
D1005	8-719-422-64	DIODE MA8062-M
D1006	8-719-058-14	LED CL-220PG-C-TS (CASSETTE DOOR)

< TRANSISTOR >

Q1001	8-729-900-53	TRANSISTOR DTC114EK
Q1002	8-729-027-23	TRANSISTOR DTA114EKA-T146

< RESISTOR >

R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1002-1005	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1006	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1007	1-216-029-00	METAL CHIP	150	5%	1/10W
R1008	1-216-029-00	METAL CHIP	150	5%	1/10W
R1011	1-216-073-00	METAL GLAZE	10K	5%	1/10W

< SWITCH >

S1001	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)

****

MISCELLANEOUS

****

19	1-776-207-11	CORD (WITH CONNECTOR)
F401	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A
HP901	1-500-157-21	HEAD, MAGNETIC (PLAYBACK)
M901	A-3291-644-A	MOTOR ASSY, MAIN
M902	A-3291-643-A	MOTOR ASSY, SUB
S901	1-692-885-11	SWITCH, ROTARY SLIDE (TAPE OPERATION)

****

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-559-61	REMOTE COMMANDER (RM-X42) (E)	
	1-473-067-31	REMOTE COMMANDER (RM-X2S)	
	3-856-246-21	MANUAL, INSTRUCTION, INSTALL (RM-X2S) (ENGLISH, FRENCH, GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, CHINESE)	(US, Canadian)
	3-856-262-11	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (E)	
	3-856-262-21	MANUAL, INSTRUCTION (ENGLISH)	(US, Canadian)
	3-856-262-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-856-266-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (E)	
	3-856-266-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US, Canadian)	
	9-939-081-01	LID, BATTERY CASE (RM-X42) (E)	
	X-3369-665-1	CASE ASSY	
	X-3369-817-1	BRACKET ASSY (RM-X2S)	

****

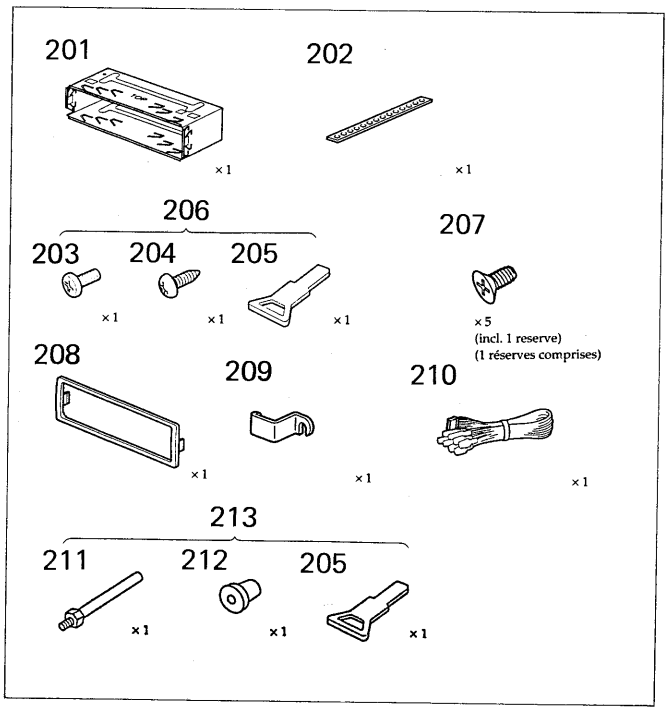
HARDWARE LIST

****

#1	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT
#2	7-621-255-40	SCREW +P 2X6
#3	7-621-770-67	SCREW +PTT 2.6X6 (S)
#4	7-621-773-87	SCREW +PTT 2.6X10 (S)
#5	7-621-773-95	SCREW +PTT 2.6X6 (S)
#6	7-624-104-04	STOP RING 2.0, TYPE -E
#7	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3
#8	7-628-253-00	SCREW +PS 2X4

****

Ref. No.	Part No.	Description	Remark
		MOUNTING HARDWARE	
		**********	
201	3-916-161-41	FRAME, FITTING	
202	3-914-406-01	SUPPORT (ND), FITTING (US, Canadian)	
203	7-682-560-04	SCREW +P 4X6 (US, Canadian)	
204	3-915-917-01	SCREW (4X12), +T (US, Canadian)	
205	3-388-078-01	KEY	
206	X-3370-076-1	SCREW ASSY (U.KEY), FITTING (US, Canadian)	
207	X-3371-913-1	SCREW ASSY (J)	
208	3-932-209-01	COLLAR	
209	3-936-243-01	STOPPER	
210	1-776-207-11	CORD (WITH CONNECTOR)	
211	3-386-828-01	SCREW, FITTING (E)	
212	3-349-410-01	BUSHING (E)	
213	X-3370-077-1	SCREW ASSY (AE.KEY), FITTING (E)	



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Quality Engineering Dept.

XR-C700

SONY

US Model
Canadian Model
E Model

SERVICE MANUAL

SUPPLEMENT-1

File this supplement with the service manual.

Subject : Change the PC Boards

(ECN-CS602769)

9-923-491-81

Sony Corporation
Personal & Mobile Communication Company

96L0435-1
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MAIN

1. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example:
  uA.. : μA.. uPA.. : μPA..
  uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3309-242-A	MAIN BOARD, COMPLETE (E)			
*	A-3309-238-A	MAIN BOARD, COMPLETE (US,Canadian)			
		**********			
*	3-932-212-01	BRACKET (IC)			
		< BUZZER >			
BZ551	1-504-920-11	BUZZER			
		< CAPACITOR >			
C1	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C2	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C3	1-124-234-00	ELECT	22uF	20%	16V
C4	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C5	1-124-234-00	ELECT	22uF	20%	16V
C6	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C7	1-124-234-00	ELECT	22uF	20%	16V
C8	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C9	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C11	1-126-163-11	ELECT	4.7uF	20%	50V
C12	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C13	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C14	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C15	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C16	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C18	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C19	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C20	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C21	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C24	1-124-234-00	ELECT	22uF	20%	16V
C31	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C33	1-126-157-11	ELECT	10uF	20%	16V
C34	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C36	1-164-346-11	CERAMIC CHIP	1uF		16V
C37	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C39	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C40	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

Ref.No.	Part No.	Description			Remark
C41	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C42	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C43	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C51	1-126-157-11	ELECT	10uF	20%	16V
C52	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C53	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C54	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C91	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C96	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C97	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C98	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C100	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (US,Canadian)
C100	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (E)
C101	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (US,Canadian)
C102	1-126-163-11	ELECT	4.7uF	20%	50V
C121	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C122	1-130-469-00	MYLAR	680PF	5%	50V
C123	1-130-469-00	MYLAR	680PF	5%	50V
C124	1-136-153-00	FILM	0.01uF	5%	50V
C125	1-126-161-11	ELECT	2.2uF	20%	50V
C126	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C127	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C128	1-104-945-11	ELECT	4.7uF	20%	35V
C129	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C130	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C131	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C132	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C133	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C151	1-104-945-11	ELECT	4.7uF	20%	35V
C152	1-126-163-11	ELECT	4.7uF	20%	50V
C153	1-126-163-11	ELECT	4.7uF	20%	50V
C156	1-104-952-11	ELECT	22uF	20%	16V
C157	1-136-165-00	FILM	0.1uF	5%	50V
C158	1-104-543-11	FILM CHIP	0.0022uF	5%	50V
C159	1-104-951-11	ELECT	10uF	20%	16V
C160	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C161	1-104-951-11	ELECT	10uF	20%	16V
C162	1-136-169-00	FILM	0.22uF	5%	50V
C171	1-104-945-11	ELECT	4.7uF	20%	35V
C172	1-104-945-11	ELECT	4.7uF	20%	35V

MAIN

Ref.No.	Part No.	Description			Remark
C175	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C176	1-136-165-00	FILM	0.1uF	5%	50V
C177	1-136-165-00	FILM	0.1uF	5%	50V
C181	1-104-945-11	ELECT	4.7uF	20%	35V
C182	1-104-945-11	ELECT	4.7uF	20%	35V
C185	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C186	1-136-165-00	FILM	0.1uF	5%	50V
C187	1-136-165-00	FILM	0.1uF	5%	50V
C191	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C192	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C193	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C200	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V (US,Canadian)
C200	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (E)
C201	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (US,Canadian)
C202	1-126-163-11	ELECT	4.7uF	20%	50V
C221	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C222	1-130-469-00	MYLAR	680PF	5%	50V
C223	1-130-469-00	MYLAR	680PF	5%	50V
C224	1-136-153-00	FILM	0.01uF	5%	50V
C225	1-126-161-11	ELECT	2.2uF	20%	50V
C226	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C227	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C228	1-104-945-11	ELECT	4.7uF	20%	35V
C229	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C230	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C231	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C232	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C233	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C251	1-104-945-11	ELECT	4.7uF	20%	35V
C252	1-126-163-11	ELECT	4.7uF	20%	50V
C253	1-126-163-11	ELECT	4.7uF	20%	50V
C256	1-104-952-11	ELECT	22uF	20%	16V
C257	1-136-165-00	FILM	0.1uF	5%	50V
C258	1-104-543-11	FILM CHIP	0.0022uF	5%	50V
C259	1-104-951-11	ELECT	10uF	20%	16V
C260	1-104-547-11	FILM CHIP	0.0047uF	5%	16V
C261	1-104-951-11	ELECT	10uF	20%	16V
C262	1-136-169-00	FILM	0.22uF	5%	50V
C271	1-104-945-11	ELECT	4.7uF	20%	35V
C272	1-104-945-11	ELECT	4.7uF	20%	35V
C275	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C276	1-136-165-00	FILM	0.1uF	5%	50V
C277	1-136-165-00	FILM	0.1uF	5%	50V
C281	1-104-945-11	ELECT	4.7uF	20%	35V
C282	1-104-945-11	ELECT	4.7uF	20%	35V
C285	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C286	1-136-165-00	FILM	0.1uF	5%	50V
C287	1-136-165-00	FILM	0.1uF	5%	50V
C291	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V

Ref.No.	Part No.	Description			Remark
C292	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C293	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C319	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C320	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C321	1-104-952-11	ELECT	22uF	20%	16V
C322	1-104-955-11	ELECT	100uF	20%	10V
C323	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C324	1-124-465-00	ELECT	0.47uF	20%	50V
C325	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C326	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C327	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C328	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C329	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C330	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C331	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C332	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C351	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C352	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C353	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C354	1-104-952-11	ELECT	22uF	20%	16V
C355	1-104-955-11	ELECT	100uF	20%	10V
C360	1-104-951-11	ELECT	10uF	20%	16V
C361	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C363	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C370	1-104-951-11	ELECT	10uF	20%	16V
C371	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C373	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C381	1-126-160-11	ELECT	1uF	20%	50V
C382	1-124-234-00	ELECT	22uF	20%	16V
C402	1-126-157-11	ELECT	10uF	20%	16V
C403	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C404	1-104-951-11	ELECT	10uF	20%	16V
C405	1-126-157-11	ELECT	10uF	20%	16V
C451	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C452	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C453	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C454	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C455	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C456	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C457	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C471	1-111-233-11	ELECT	5600uF	20%	16V
C472	1-136-173-00	FILM	0.47uF	5%	50V
C473	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C474	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C475	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C476	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C501	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C507	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C508	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C531	1-165-319-11	CERAMIC CHIP	0.1uF		50V

MAIN

Ref.No.	Part No.	Description			Remark
C532	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C533	1-125-705-11	DOUBLE LAYERS	0.22F		5.5V
C534	1-126-924-11	ELECT	330uF	20%	6.3V
C535	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C536	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C537	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C551	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C552	1-124-257-00	ELECT	2.2uF	20%	50V
C553	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C554	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C555	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C557	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C558	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C559	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-126-157-11	ELECT	10uF	20%	16V
C602	1-124-234-00	ELECT	22uF	20%	16V
C603	1-126-157-11	ELECT	10uF	20%	16V
C605	1-124-589-11	ELECT	47uF	20%	16V
C606	1-124-589-11	ELECT	47uF	20%	16V
C607	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C617	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C618	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C621	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C622	1-124-257-00	ELECT	2.2uF	20%	50V
C651	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C652	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C653	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C654	1-126-157-11	ELECT	10uF	20%	16V
C655	1-124-234-00	ELECT	22uF	20%	16V
C656	1-126-934-11	ELECT	220uF	20%	16V
C661	1-104-952-11	ELECT	22uF	20%	16V
C662	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C663	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C664	1-104-955-11	ELECT	100uF	20%	10V
C691	1-135-179-21	TANTAL. CHIP	2.2uF	20%	16V
C692	1-135-179-21	TANTAL. CHIP	2.2uF	20%	16V
C703	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C704	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C705	1-124-234-00	ELECT	22uF	20%	16V
C706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C707	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C751	1-124-257-00	ELECT	2.2uF	20%	50V
C754	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C755	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C756	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C757	1-126-160-11	ELECT	1uF	20%	50V
C791	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C792	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C799	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref.No.	Part No.	Description		Remark
C901	1-164-232-11	CERAMIC CHIP	0.01uF	50V
		< CONNECTOR >		
CNJ551	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)		
CNP321	1-766-260-11	CONNECTOR, FFC/FPC (ZIF) 7P		
* CNP331	1-506-995-11	PIN, CONNECTOR (PC BOARD) 13P		
CNP471	1-774-701-11	PIN, CONNECTOR 16P		
CNP851	1-770-409-11	CONNECTOR, BOARD TO BOARD 16P		
		< DISCHARGE GAP >		
CP1	1-519-504-11	GAP, DISCHARGE		
		< DIODE >		
D1	8-719-991-75	DIODE	RB425D	
D31	8-719-109-88	DIODE	RD5.6ES-B1	
D51	8-719-110-14	DIODE	RD9.1ES-B3	
D321	8-719-404-46	DIODE	MA110	
D371	8-719-422-12	DIODE	MA8039	
D372	8-719-404-46	DIODE	MA110	
D401	8-719-404-46	DIODE	MA110	
D402	8-719-404-46	DIODE	MA110	
D403	8-719-974-59	DIODE	1SR139-100	
D404	8-719-974-59	DIODE	1SR139-100	
D405	8-719-404-46	DIODE	MA110	
D471	8-719-049-38	DIODE	1N5404TU	
D472	8-719-422-64	DIODE	MA8062-M	
D473	8-719-017-98	DIODE	MA8200-TX	
D501	8-719-422-64	DIODE	MA8062-M	
D502	8-719-422-64	DIODE	MA8062-M	
D531	8-719-911-19	DIODE	1SS119-25	
D532	8-719-041-79	DIODE	MA721WA-TX	
D533	8-719-109-93	DIODE	RD6.2ESB2	
D534	8-719-979-34	DIODE	DAP236K-T146	
D551	8-719-022-90	DIODE	MA8160M	
D552	8-719-420-14	DIODE	MA8082-M	
D553	8-719-109-93	DIODE	RD6.2ESB2	
D554	8-719-109-97	DIODE	RD6.8ES-B2	
D555	8-719-109-93	DIODE	RD6.2ESB2	
D556	8-719-109-93	DIODE	RD6.2ESB2	
D557	8-719-109-93	DIODE	RD6.2ESB2	
D558	8-719-109-93	DIODE	RD6.2ESB2	
D559	8-719-911-19	DIODE	1SS119-25	
D565	8-719-404-46	DIODE	MA110	
D575	8-719-404-46	DIODE	MA110	
D591	8-719-057-80	DIODE	MA8160-M-TX	
D592	8-719-057-80	DIODE	MA8160-M-TX	
D593	8-719-422-62	DIODE	MA8062-L-TX	
D594	8-719-422-62	DIODE	MA8062-L-TX	

MAIN

Ref.No.	Part No.	Description	Remark
D595	8-719-422-62	DIODE MA8062-L-TX	
D596	8-719-422-62	DIODE MA8062-L-TX	
D597	8-719-422-62	DIODE MA8062-L-TX	
D598	8-719-422-62	DIODE MA8062-L-TX	
D621	8-719-923-74	DIODE MTZJ-T-77-11A	
D651	8-719-110-14	DIODE RD9.1ES-B3	
D652	8-719-911-19	DIODE 1SS119-25	
D661	8-719-110-17	DIODE RD10ESB2	
D701	8-719-979-34	DIODE DAP236K-T146	
D702	8-719-404-46	DIODE MA110	
D751	8-719-404-46	DIODE MA110	
		< FUSE >	
F401	1-532-982-11	FUSE (BLADE TYPE) (AUTO FUSE) 15A	
		< IC >	
IC11	8-759-367-11	IC HA12181FP-EL	
IC31	8-759-823-81	IC LC7216M	
IC321	8-752-075-59	IC CXA2511Q-T4	
IC351	8-752-075-48	IC CXA1946AQ-T6	
IC361	8-759-331-71	IC NJM4558E(TE2)	
IC371	8-759-331-71	IC NJM4558E(TE2)	
IC401	8-759-369-41	IC HA13155	
IC531	8-759-363-81	IC XC61AN4002PR	
IC532	8-759-344-91	IC RN5VD23AA-TL	
IC551	8-759-096-16	IC MM1175XFF	
IC601	8-759-347-49	IC BA3918-V2	
IC651	8-759-823-87	IC LB1638M	
IC701	8-759-438-56	IC uPD78058GC-286-3B9	
IC751	8-759-428-05	IC MN1883220S4B3	
		< JACK >	
J1	1-764-808-21	JACK (ANTENNA)	
J451	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, LINE OUT REAR, LINE OUT FRONT)	
J551	1-566-822-41	JACK (REMOTE IN)	
		< JUMPER RESISTOR >	
JC1	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC101	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC102	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC201	1-216-864-11	METAL CHIP 0 5% 1/16W	
JC202	1-216-295-00	CONDUCTOR, CHIP (2012)	
JC391	1-216-295-00	CONDUCTOR, CHIP (2012)	
		< COIL >	
L31	1-410-501-11	INDUCTOR 2.2uH	
L32	1-410-509-11	INDUCTOR 10uH	

Ref.No.	Part No.	Description	Remark
L471	1-411-669-12	COIL, CHOKE 400uH	
L701	1-410-509-11	INDUCTOR 10uH	
L751	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q32	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q51	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q52	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q171	8-729-920-21	TRANSISTOR DTC314TKH04	
Q181	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q271	8-729-920-21	TRANSISTOR DTC314TKH04	
Q281	8-729-920-21	TRANSISTOR DTC314TKH04	
Q301	8-729-920-21	TRANSISTOR DTC314TKH04	
Q331	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q332	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q333	8-729-027-60	TRANSISTOR DTC144TKA-T146	
Q371	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q372	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q373	8-729-021-94	TRANSISTOR 2SK1657-T1B	
Q410	8-729-027-24	TRANSISTOR DTA114TKA-T146	
Q531	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q532	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q551	8-729-900-53	TRANSISTOR DTC114EK	
Q552	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q553	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q554	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q555	8-729-900-53	TRANSISTOR DTC114EK	
Q565	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q621	8-729-900-53	TRANSISTOR DTC114EK	
Q622	8-729-900-53	TRANSISTOR DTC114EK	
Q623	8-729-926-99	TRANSISTOR 2SA1585STPR	
Q624	8-729-030-18	TRANSISTOR 2SD2525	
Q625	8-729-030-18	TRANSISTOR 2SD2525	
Q626	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q651	8-729-030-18	TRANSISTOR 2SD2525	
Q652	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q653	8-729-106-60	TRANSISTOR 2SB1115A	
Q661	8-729-900-53	TRANSISTOR DTC114EK	
Q662	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q663	8-729-040-22	TRANSISTOR 2SD1862TV2R	
Q701	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q702	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q703	8-729-027-59	TRANSISTOR DTC144EKA-T146	

MAIN

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R1	1-216-037-00	METAL CHIP	330	5%	1/10W
R2	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R3	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R6	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R7	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R8	1-216-041-00	METAL CHIP	470	5%	1/10W
R9	1-216-073-00	METAL CHIP	10K	5%	1/10W
R10	1-216-081-00	METAL CHIP	22K	5%	1/10W
R11	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R12	1-216-075-00	METAL CHIP	12K	5%	1/10W
R13	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R14	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R15	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R16	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R17	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R18	1-216-009-00	METAL CHIP	22	5%	1/10W
R19	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R31	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R32	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R33	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R34	1-216-073-00	METAL CHIP	10K	5%	1/10W
R35	1-216-073-00	METAL CHIP	10K	5%	1/10W
R37	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R51	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R52	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W
R101	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R106	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US,Canadian)
R106	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E)
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W (US,Canadian)
R121	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R122	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R123	1-216-109-00	METAL CHIP	330K	5%	1/10W
R124	1-216-077-00	METAL CHIP	15K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R126	1-216-080-00	METAL CHIP	20K	5%	1/10W
R127	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R128	1-216-073-00	METAL CHIP	10K	5%	1/10W
R151	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (E)
R151	1-216-073-00	METAL CHIP	10K	5%	1/10W (US,Canadian)
R152	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US,Canadian)
R152	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (E)
R154	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R171	1-216-033-00	METAL CHIP	220	5%	1/10W

Ref.No.	Part No.	Description			Remark
R172	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R173	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R174	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R176	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R177	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R181	1-216-033-00	METAL CHIP	220	5%	1/10W
R182	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R183	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R184	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R186	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R187	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R201	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R206	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (US,Canadian)
R206	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E)
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W (US,Canadian)
R221	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R222	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R223	1-216-109-00	METAL CHIP	330K	5%	1/10W
R224	1-216-077-00	METAL CHIP	15K	5%	1/10W
R225	1-216-079-00	METAL CHIP	18K	5%	1/10W
R227	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R251	1-216-071-00	METAL CHIP	8.2K	5%	1/10W (E)
R251	1-216-073-00	METAL CHIP	10K	5%	1/10W (US,Canadian)
R252	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (US,Canadian)
R252	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (E)
R254	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R271	1-216-033-00	METAL CHIP	220	5%	1/10W
R272	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R273	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R274	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R276	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R277	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R281	1-216-033-00	METAL CHIP	220	5%	1/10W
R282	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R283	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R284	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R286	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R287	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R321	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R322	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R323	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R324	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R325	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R326	1-216-049-11	METAL GLAZE	1K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R327	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R328	1-216-025-00	METAL GLAZE	100	5%	1/10W
R331	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R332	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R333	1-216-085-00	METAL CHIP	33K	5%	1/10W
R351	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R352	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R356	1-216-009-00	METAL CHIP	22	5%	1/10W
R361	1-216-073-00	METAL CHIP	10K	5%	1/10W
R362	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R363	1-216-073-00	METAL CHIP	10K	5%	1/10W
R364	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R365	1-216-009-00	METAL CHIP	22	5%	1/10W
R371	1-216-073-00	METAL CHIP	10K	5%	1/10W
R372	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R373	1-216-073-00	METAL CHIP	10K	5%	1/10W
R374	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R375	1-216-009-00	METAL CHIP	22	5%	1/10W
R381	1-216-295-00	CONDUCTOR, CHIP		(2012)	
R391	1-216-073-00	METAL CHIP	10K	5%	1/10W
R403	1-216-073-00	METAL CHIP	10K	5%	1/10W
R405	1-216-073-00	METAL CHIP	10K	5%	1/10W
R406	1-216-073-00	METAL CHIP	10K	5%	1/10W
R453	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R454	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R472	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R473	1-249-421-11	CARBON	2.2K	5%	1/4W
R474	1-216-073-00	METAL CHIP	10K	5%	1/10W
R501	1-216-041-00	METAL CHIP	470	5%	1/10W
R507	1-216-025-00	METAL GLAZE	100	5%	1/10W
R508	1-216-025-00	METAL GLAZE	100	5%	1/10W
R531	1-216-073-00	METAL CHIP	10K	5%	1/10W
R532	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R533	1-216-041-00	METAL CHIP	470	5%	1/10W
R534	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R535	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R551	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R552	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R553	1-216-009-00	METAL CHIP	22	5%	1/10W
R554	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R555	1-216-073-00	METAL CHIP	10K	5%	1/10W
R556	1-216-025-00	METAL GLAZE	100	5%	1/10W
R557	1-216-025-00	METAL GLAZE	100	5%	1/10W
R558	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R559	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R560	1-216-025-00	METAL GLAZE	100	5%	1/10W
R561	1-216-025-00	METAL GLAZE	100	5%	1/10W
R562	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W
R563	1-208-806-11	METAL GLAZE	10K	0.50%	1/10W

Ref.No.	Part No.	Description			Remark
R565	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R591	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R592	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R601	1-216-073-00	METAL CHIP	10K	5%	1/10W
R621	1-249-417-11	CARBON	1K	5%	1/4W
R622	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R623	1-216-073-00	METAL CHIP	10K	5%	1/10W
R624	1-249-385-11	CARBON	2.2	5%	1/6W
R625	1-249-385-11	CARBON	2.2	5%	1/6W
R626	1-249-411-11	CARBON	330	5%	1/4W
R627	1-249-411-11	CARBON	330	5%	1/4W
R651	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R652	1-249-385-11	CARBON	2.2	5%	1/6W
R653	1-216-073-00	METAL CHIP	10K	5%	1/10W
R654	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R661	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R701	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R704	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R705	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R706	1-218-179-11	METAL GLAZE	10M	5%	1/10W
R707	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R708	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R709	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R710	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R711	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R712	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R713	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R714	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R715	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R716	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R719	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R721	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R724	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R725	1-216-081-00	METAL CHIP	22K	5%	1/10W
R726	1-216-081-00	METAL CHIP	22K	5%	1/10W
R727	1-216-081-00	METAL CHIP	22K	5%	1/10W
R728	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R729	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R730	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R731	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R732	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R733	1-216-037-00	METAL CHIP	330	5%	1/10W
R734	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R735	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R737	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R738	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R751	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R752	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R753	1-216-049-11	METAL GLAZE	1K	5%	1/10W

MAIN **SUB**

Ref.No.	Part No.	Description			Remark
R754	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R755	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R756	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R757	1-216-097-00	METAL GLAZE	100K	5%	1/10W (E)
R758	1-216-097-00	METAL GLAZE	100K	5%	1/10W (US,Canadian)
R760	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R761	1-216-049-11	METAL GLAZE	1K	5%	1/10W
R762	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R767	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R792	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< NETWORK RESISTOR >			
RB701	1-233-413-11	RES, CHIP NETWORK 2.2K			(3216)
RB702	1-233-810-21	RES, NETWORK 100K			(3216)
RB703	1-233-810-21	RES, NETWORK 100K			(3216)
		< VARIABLE RESISTOR >			
RV121	1-238-853-11	RES, ADJ, CERMET 1K			
RV221	1-238-853-11	RES, ADJ, CERMET 1K			
		< SWITCH >			
S501	1-762-108-11	SWITCH, PUSH (1 KEY) (NOSE DET)			
S531	1-692-431-21	SWITCH, TACTILE (RESET)			
S701	1-571-478-11	SWITCH, SLIDE (POWER SELECT)			
		< TUNER >			
TU1	A-3282-012-A	TUNER UNIT (TUX-006 (E))			
		< VIBRATOR >			
X31	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)			
X701	1-579-233-11	VIBRATOR, CERAMIC (5MHz)			
X702	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X751	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			

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*	1-660-465-11	SUB BOARD	
		**********	
		< CONNECTOR >	
CN1000	1-774-276-21	SOCKET, CONNECTOR 16P	
CN1001	1-774-944-11	SOCKET, CONNECTOR 14P	
		< DIODE >	
D1001	8-719-422-64	DIODE MA8062-M	
D1002	8-719-422-64	DIODE MA8062-M	
D1003	8-719-422-64	DIODE MA8062-M	
D1004	8-719-422-64	DIODE MA8062-M	
D1005	8-719-422-64	DIODE MA8062-M	

Ref.No.	Part No.	Description			Remark
D1006	8-719-058-14	LED CL-220PG-C-TS (CASSETTE DOOR)			
D1008	8-719-422-64	DIODE MA8062-M			
D1009	8-719-422-64	DIODE MA8062-M			
		< TRANSISTOR >			
Q1001	8-729-900-53	TRANSISTOR DTC114EK			
Q1002	8-729-027-23	TRANSISTOR DTA114EKA-T146			
		< RESISTOR >			
R1001	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1002	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1003	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1004	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1005	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1006	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1007	1-216-029-00	METAL CHIP	150	5%	1/10W
R1008	1-216-029-00	METAL CHIP	150	5%	1/10W
R1011	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S1001	1-762-619-11	SWITCH, KEY BOARD (WITH LED) (⏏)			

****

2. PRINTED WIRING BOARDS

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	F-12	IC321	G-9
D31	I-15	IC351	F-7
D51	I-16	IC361	D-7
D321	F-15	IC371	D-8
D371	E-17	IC401	B-17
D372	E-17	IC531	H-2
D401	F-6	IC532	G-2
D402	B-7	IC551	E-3
D403	D-18	IC601	E-19
D404	D-19	IC651	F-2
D405	E-6	IC701	G-4
D471	D-19	IC751	H-6
D472	C-4		
D473	C-5	Q3	H-13
D501	I-5	Q32	I-15
D502	I-4	Q51	I-7
D531	G-21	Q52	I-10
D532	G-21	Q101	E-10
D533	I-21	Q171	B-8
D534	I-4	Q181	B-9
D551	F-3	Q201	E-13
D552	F-5	Q271	B-8
D553	E-19	Q281	B-9
D554	E-19	Q301	D-14
D555	C-22	Q331	F-8
D556	C-21	Q332	G-16
D557	C-22	Q333	F-14
D558	C-21	Q371	F-18
D559	D-21	Q372	F-18
D565	F-3	Q373	F-18
D575	E-3	Q410	H-15
D591	J-15	Q531	I-4
D592	J-15	Q532	I-4
D593	J-9	Q551	F-19
D594	J-14	Q552	F-19
D595	I-13	Q553	D-3
D596	J-8	Q554	E-20
D597	I-13	Q555	J-20
D598	J-13	Q565	F-20
D621	H-21	Q621	I-20
D651	G-21	Q622	I-21
D652	E-21	Q623	I-20
D661	D-17	Q624	I-21
D701	G-19	Q625	H-21
D702	C-5	Q626	I-21
D751	H-6	Q651	G-21
D1001	J-26	Q652	F-2
D1002	J-26	Q653	F-21
D1003	J-26	Q661	E-5
D1004	J-25	Q662	E-17
D1005	J-25	Q663	E-17
D1006	H-24	Q701	G-3
D1008	I-26	Q702	G-3
D1009	I-26	Q703	G-20
		Q1001	J-25
IC11	D-9	Q1002	I-25
IC31	I-9		

Note :

- ○ : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▭ : Pattern on the side which is seen. (The other layer's patterns are not indicated.)

[MAIN BOARD] (SIDE A)

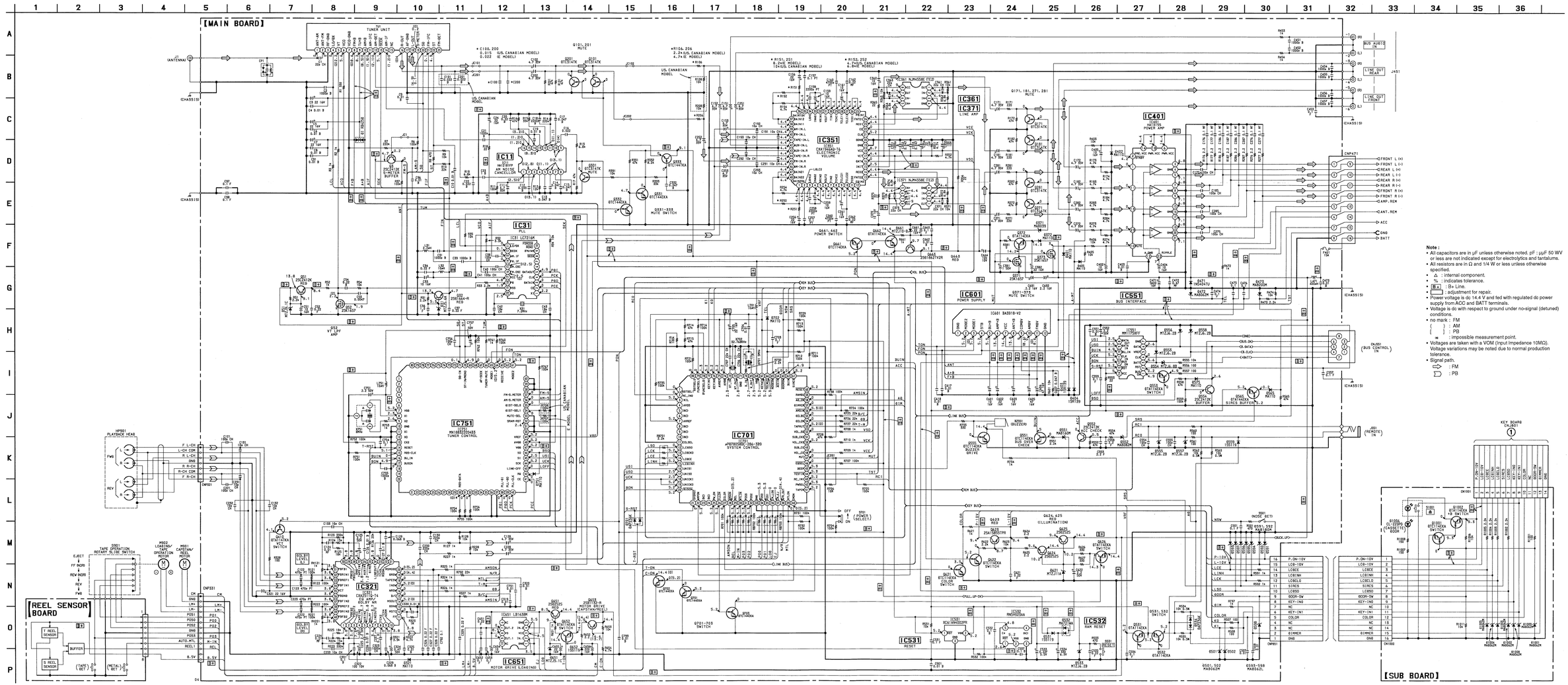
[MAIN BOARD] (SIDE B)

[REEL SENSOR BOARD]

[SUB BOARD] (SIDE A)

[SUB BOARD] (SIDE B)

3. SCHEMATIC DIAGRAM


【MAIN BOARD】
【SUB BOARD】
【REEL SENSOR BOARD】
IC31
IC351
IC361
IC371
IC401
IC551
IC601
IC701
IC751
IC321
IC651
IC531
IC532
Note :
• All capacitors are in μF unless otherwise noted. pF : μμF. 50 WV or less are not indicated except for electrolytics and tantalums.
• All resistors are in Ω and 1/4 W or less unless otherwise specified.
• △ : internal component.
• % : indicates tolerance.
• B+ : B+ Line.
• : adjustment for repair.
• Power voltage is dc 14.4 V and fed with regulated dc power supply from ACC and BATT terminals.
• Voltage is dc with respect to ground under no-signal (detuned) conditions.
• no mark : FM
( ) : AM
[ ] : PB
∞ : impossible measurement point.
• Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerance.
• Signal path.
: FM
: PB

XR-C700

SONY
SERVICE MANUAL

US Model
Canadian Model
E Model

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT				CORRECT		
	Ref.No.	Part No.	Description	Remark	Part No.	Description	Remark
64	TU1	————			A-3282-012-A	TUNER UNIT (TUX-006 (E))	

(SPM-96039)

9-923-491-91

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Personal & Mobile Communication Company

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